BI 358 Discussion Session 7

I. Attendance.

II. Quiz 4 CV +CVD next Tues just < lecture, 8:20 am!

III. Feedback on outlines & papers (update). Goal to get feedback on draft prior to your presentation!

IV. Presentation Guidelines 8 min, 4 min Q, 5-7 slides
See DLN p x for sample score sheet. .pptx, .ppt, .pdf of Prezi or Keynote due ≤ 4 pm Mon to Pat lombardi@uoregon.edu with cc to Kelsey & Hannah kschult7@uoregon.edu + hsoukup@oregon.edu

V. Female Reproductive Case Histories to prepare for D. Garrett next Thursday! DLN pp. 7-2 & 7-3 +
Protect the next generation: Recommend the HPV vaccine http://www.medscape.com/viewarticle/829938

Thanks for providing feedback on guest lecturers within the allotted time frame! Go work on papers & presentations &…maybe relax?! 😊...Yahoo!

Presenters have options! See Pat!
The pathway linking diet, microbes and TMAO to a large collection of disease states. A key step along the path is in the liver, where flavin-containing monoxygenases (FMOs) rapidly convert trimethylamine to trimethylamine-N-oxide (TMAO) which then exerts distinct effects contributing to atherosclerosis, chronic kidney disease and heart failure.

Dietary choline and L-carnitine

Heart failure

Gut flora

Cholinergic system

Trimethylamine

Hepatic FMOs

TMAO

Chronic kidney disease

Atherosclerosis
The pathway linking diet, gut microbes and TMAO to a growing collection of disease states.
Red Meat-Derived Glycan Promotes Inflammation & Disease

Atherosclerosis
Cancer

N-Glycolylneuramic acid (Neu5GC)

Ab to Neu5GC
Neu5GC Ab

Chronic Inflammation
Amyloid-A +
Acute Phase Proteins
IL-6

Immune System
Xeno Auto-Antigen!
Anti-Neu5GC Ab

Source: After AN Samraj, PNAS, 2015, 112(2), 542-7. http://m.pnas.org/content/112/2/542.long

List source!