Bio 3

09-01-11

\_\_\_

Turned in Exam 1

-will be returned on Tuesday (09/06)

Change your syllabus!

Computer Lab Hours are now: 8 am (not 7:30 am)

Blackboard:

-reading assignment will be put up on there

-next week's lab is video assignment

-find instructions on blackboard

-no lab on Tuesday (09/06/11)

-must be in lab book, due on Tuesday (09/13/11)

\_\_\_

**The Game of Biology (GOB) (cont.)**

Ex. Human behavior controlled by Winning Game of Bio (WGOB)

-Royalty, Peewee Herman, fetility idols, hawaiians, 7-11, Porn, Diabetes

-ex: story of evolutionary drives that were vital to survival of humans and now is a negative

**Bio primer on FAT:**

-3x as many calories as equal weight of sugar

-store energy as fat

-important for survival

-indication of health, ability to find food, efficiently use calories

-those that didn't store fat well died - lost GOB

-Humans require fat: vitamin delivery, protection, long-term energy storage

-Females: support growth of fetus

-Males: energy for hunting/surviving

-becomes a selected genetic characteristic

-chosen with mates because it seems positive (Evolution)

-ex: Fertility idols, often portray fat as prized

-ex: Pacific Islander (such as Hawaiian)

-strong selection for ability to store fat

-bc on islands, food limited

-ex: Middle-Ages

-fat was a status symbol

-means, ability to acquire food

-people even bought fake belly

-style of painting: Reubenesque

-by Peter Paul Ruben (paints portraits of royalty as obese)

-**not** to be confused with Paul Reubens (PeeWee)

**Evolution becomes Mistake?**

-not a directed process

-doesn't produce "perfect organisms"

-selects traits most suited for current environment/conditions

-when environment/circumstances change...

-prior evolutionary advantage may become future evolutionary disadvantage

**What's Changed for Humans?**

-invention of agriculture

-calories become easier, cheaper, more abundant year-round

-even more now with things like 7-11, fast food, refrigerators, etc

-human genes still in "store-energy!" mode

-leads to obesity becoming more prevalent, illnesses due to it

-diabetes, heart disease, stroke, high blood pressure, blindness, nerve damage, amputations, kidney failure etc.

-fat storage is hardwired biological into human psychology and biology

-**obsession with big breasts?**

-modified sweat gland with fat storage

-comes from this early draw to find mates with efficient fat storage

-breasts = visual indicator of fat storage

-more likely fertile, more likely to have healthy children

-different cultures focus on different body parts/images as sexual draws

-subconsciously drawn to it, rooted in biological background, WGOB

-economy built around this

-plastic surgery

-porn

-push-up bras