Bio 3

09-01-11

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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)

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**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