...and then we thought, why stop at genetically enhanced food?
What is a genetic “enhancement”? 
What is a “genetic” enhancement?
WHAT IS A “GENETIC” ENHANCEMENT?

- Drugs made with recombinant DNA
WHAT IS A “GENETIC” ENHANCEMENT?

• Drugs made with recombinant DNA
• Genetic testing
  – Enhancement pharmacogenetics
  – Testing for athletic ability
WHAT IS A “GENETIC” ENHANCEMENT?

- Drugs made with recombinant DNA
- Genetic testing
- Reproductive decision-making
  - PCT (Preconception genetic testing)
BUYING DONOR SPERM

Information on Donors

To assist you with donor selection, we make the following information available:

• A donor catalog that lists each donor’s ethnicity, basic physical characteristics, and identity-release status. The donor catalog is free and posted on our website.

• Donor profiles that summarize each donor’s medical and family history, and include his short personal narrative. Interested in finding out why a donor chose to donate or why he chose to be an identity-release donor? Profiles include the donor’s answers to these and other questions. Profiles are free and posted on our website. You can access donor profiles from the donor catalog page.

• Fifteen-page medical charts that contain detailed information on the physical characteristics, health habits, personal interests, educational background, and medical history of each donor and members of his immediate biological family. Charts also include the TSBC interviewer’s impressions of the donor’s personality and appearance. Medical charts are available by mail (not by fax or email), or you may schedule a phone or office consultation to review several charts at one time—there is a fee for reviewing or purchasing charts.

• We offer photo matching services for those who would like to select a donor who resembles a specific individual—there is a fee for photo matching. Our counselors will match the photos you submit to photos of our donors; we do not release photos of our donors to you.

• Our bank is small enough that we have the opportunity to get to know our donors. Phone counselors can provide you with personal impressions of donors.

• We can let you know how many pregnancies and births have been reported on each donor. Our limit is ten families worldwide.
WHAT IS A “GENETIC” ENHANCEMENT?

• Drugs made with recombinant DNA
• Genetic testing
• Reproductive decision-making
  – PCT (Preconception genetic testing)
  – PGD (IVF/Pre-implantation genetic testing)
  – Non-therapeutic abortion
WHAT IS A “GENETIC” ENHANCEMENT?

- Drugs made with recombinant DNA
- Genetic testing
- Reproductive decision-making
- Germ line genetic engineering
'3 fair exhibitors disqualified, accused of altering cows’ looks

Associated Press

COLUMBUS — Three livestock exhibitors at last year’s Ohio State Fair have been disqualified after being accused of outfitting their Holstein cows with hairpieces.

State Fair inspectors said the three either painted hair or glued hair from another part of the animal or from another animal to make the cows’ backs look straighter and enhance their appearance in the show ring.

Kreg Krebs and his brother, Kenneth, of Fredericksburg in Wayne County and Scott Long of Clayton, Mich., could be required to forfeit all winnings, Department of Agriculture spokeswoman Melanie Wilt said Wednesday. The winnings had been withheld by fair officials.

The three men have 30 days to request a hearing.
WHAT IS A “GENETIC” ENHANCEMENT?

• Drugs made with recombinant DNA
• Genetic testing
• Reproductive decision-making
• Germ line genetic engineering
• Somatic genetic engineering
SOMATIC GENETIC ENGINEERING

- Children
AMA COUNCIL ON ETHICAL AND JUDICIAL AFFAIRS (Arch. Fam. Med. 3:633 (1994))

“[G]enetic interventions to enhance traits should be considered permissible only in severely restricted situations.”

“clear and meaningful benefit to the fetus or child”;
“no trade-off with other characteristics or traits”;
“equal access ... irrespective of income or other socioeconomic characteristics.”
SOMATIC GENETIC ENGINEERING

- Children
- Adults
Gene therapy research targets muscular dystrophy

November 27, 2000
Web posted at: 5:00 p.m. EST (2200 GMT)

By Michele Dula Baum
CNN.com Health Writer

(CNN) -- Imagine a virus that makes you well.

Scientists at the University of Pittsburgh in Pennsylvania are zeroing in on the muscle-wasting disease of Duchenne Muscular Dystrophy using a genetically altered virus called an adeno-associated virus. Researchers hope the tiny package will eventually carry a healing punch.

"I'm very excited about this," said Dr. Xiao Xiao, an assistant professor of molecular genetics and biochemistry and lead researcher of the Pittsburgh team. "But there's still a long way to go."

Still, results using mice seem promising, said Xiao, explaining that investigators redesigned the virus to deliver a payload of dystrophin protein, an essential protein for muscle function that is missing in patients with...
An XFL-Football.com Exclusive

More of the XFL's Million Dollar Game

Yes, it was a great game. Exciting plays by the Demons and Xtreme kept the fans on their feet all night!
I'm not your type?

Well, just what is your type?

Human?

Picky, picky, picky.