



1

Reading Assignments:

1. [Biology of the Face](#)
2. [An Evolutionary Theory of Female Physical Attractiveness](#)
3. [Health Signals Beauty](#)
4. [Biological Basis of Sex Appeal](#)
5. [The Psychology and Biology of Beauty](#)
6. [The Biology of Beauty](#)
7. [Handsome men have the best sperm](#)
8. [Beards: Too Hip For Their Own Good](#)
9. [Human Sex Pheromones: We've Got a Nose for Gender](#)

2

Biology of Beauty

"Throughout the animal world attractiveness certifies biological quality." (Randy Thornhill, U. New Mexico ecologist)

3

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"Every culture is a '*beauty culture*'. I defy anyone to point to a society, any time in history or any place in the world, that wasn't preoccupied with beauty."



(Nancy Etcoff, Harvard Medical School, author:
"Survival of the Prettiest: The Science of Beauty")

4

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Our extreme sensitivity to beauty is hard-wired, that is, governed by circuits in the brain shaped by natural selection."



(Nancy Etcoff, Harvard Medical School, author: "Survival of the Prettiest: The Science of Beauty")

5

Biology of Beauty

- **Our human idea of beauty is influenced by many things**
 - different **cultures** have different standards.
 - different **eras** (generations) have different standards.
 - these things are highly subjective and change constantly.

6

Biology of Beauty

- **Our human idea of beauty is influenced by many things**
 - different **cultures** have different standards.
 - different **eras** (generations) have different standards.
 - these things are highly subjective and change constantly.

- However, **evolution** (natural & sexual selection) has left the strongest impression on what we deem beautiful, regardless of what culture or era we live in. The influence of evolution on us is VERY powerful, but not always moral or fair, and should not be judged by our cultural laws or edicts.

So, be careful friends!

Do not use *nature* as a moral compass!!

7

Biology of Beauty

"Do we have to indulge every appetite that natural selection has preserved in us? **Of course not!** I don't know any scientist who seriously thinks you can look to nature for moral guidance. Even the fashion magazines would provide a better compass."

(Randy Thornhill, U. New Mexico ecologist)

"It is almost impossible, systematically, to constitute a natural moral law. Nature has no principles. She furnishes us with no reason to believe that human life is to be respected. Nature, in her indifference, makes no distinction between good and evil."

(Anatole France, French poet)

8

**Examples of Nature – red in tooth and claw:
(Why we don't use nature as a moral compass!!)**

For Ex.

- > When male lions take over a new pride they kill all the existing cubs (**infanticide**) in order to bring the females into heat so they can mate with them.
- > Unrelated male doesn't want to expend any resources on offspring not biologically his. Called the _____

Similar examples of this seen in primates (even us), & rodents, among other species.



Nature
isn't a
Disney film!



9

**Examples of Nature – red in tooth and claw:
(Why we don't use nature as a moral compass!!)**

My Point:

When evaluating and understanding the “Biology” of beauty, **from an evolutionary & biological standpoint**, you must suspend your cultural morality. Some of this stuff might be offensive or controversial. but hey – it is what it is.....



Nature
isn't a
Disney film!



10

Remember this from Evolution of Sex??

Disadvantages:

- 1) Recombination destroys adaptive combinations of genes
- 2) Has the "*Two-fold Cost of Sex*" (slow process w/fewer offspring)
- 3) Only 50% genes inherited from each parent
- 4) males & females must find each other to reproduce.
- 5) Egg usually stays put (in female) while sperm must move, find, and compete for egg entrance.
- 6) involves "*being at right place, right time*" - evolution of reproductive cycles.
- 7) brings in complication of **competition for access to mates**.
- 8) brings in complication of **female choice** into mating (females are choosy when selecting mate)
- 9) **imbalance in cost of sex between males & females**
 - females produce fewer eggs while males produce sperm
 - human females lose eggs as they go from fetus, birth, to puberty.
10. This imbalance in cost of sex between males and females leads to **different reproductive agendas for females and males**. [often these strategies conflict w/each other]

11

From an evolutionary and biological perspective, the cost of sexual reproduction differs between males & females (for mammals)

Males:

- >
- >
- >
- >

12

From an evolutionary and biological perspective, the cost of sexual reproduction differs between males & females (for mammals)

Males:

Females:

>

>

>

13

From an evolutionary and biological perspective, the cost of sexual reproduction differs between males & females (for mammals)

THEREFORE:

The **different costs of sex** between males and females leads to **different reproductive agendas.**

And we see the relics of evolutionary forces at work all the time.

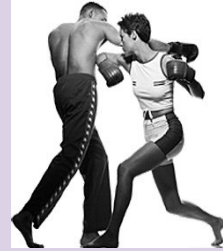
If we understand these forces, perhaps we can better understand ourselves and each other.

14

Is Sexual Reproduction Cooperative or Competitive?

Battle of the Sexes?

- Each male and female is out to maximize their own fitness.
- Each wants to maximize gains and minimize costs.
- Sometimes individual interests coincide BUT it's usually everyone out for themselves.
- Conflict of agendas = driving evolutionary force behind behavioral, anatomical, and physiological strategies of reproduction.



Males and females are out to "screw" each other to get the best genetic deal (find the most fit mate).

15

Is Sexual Reproduction Cooperative or Competitive?

What would happen if MALES could get pregnant?

Ex.A) Seahorses

> males receive eggs from females, which he fertilizes, and broods embryos in a special brood pouch on his belly.

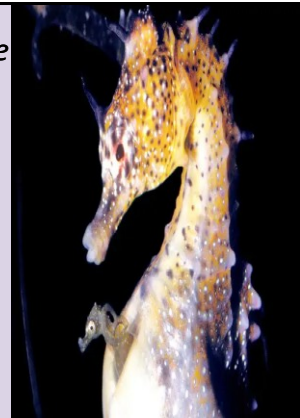
> male provides nutrients to developing embryos through brood pouch.

> Is the one that gives birth

Evolutionary Result?

>

>



16

Is Sexual Reproduction Cooperative or Competitive?

What would happen if MALES could get pregnant?

Ex. B) Pipefish

> males receive eggs from females, which he fertilizes and the female “sticks” the fertilized eggs into a brood pouch on his abdomen.



Male pipefish

> male provides nutrients to developing embryos through brood pouch, and protects them when hatched.



Close-up of developing pipefish in male brood pouch.

Evolutionary Result?

> Males invest more heavily in reproduction than females.

> Males are more choosy & females must “woo” the male!

Click [HERE](#) for YouTube Video (8min):

17

“Survival of the Sexiest” – video (4 min)
evolutionary_psych_20.5MB.mov



18

• Beauty Ideals Vary From **Culture to Culture**



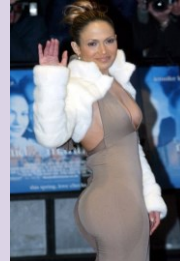
woman - Thailand



woman - Ethiopia



Gisel Brunsen - Brazil



J Lo - USA



man - Nigeria



Maori man - New Zealand



Takayuki Yamada - Japan



Chris Hemsworth - USA

19

• Beauty Ideals Vary From **Era to Era**



Birth of Venus
Sandro Botticelli (1486)



Josephine Baker (1920)



Twiggy (1940)



Marilyn Monroe (1950)



Farrah Fawcett (1970)



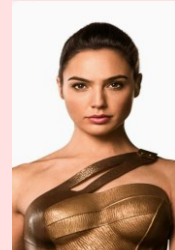
Madonna (1983)



Janet Jackson (1983)



J Lo (2000)



Gal Gadot (2018)

20

- **Beauty Ideals Vary From Era to Era**



Michelangelo
(518)



Rudolph Valentino
(1920)



James Dean (1940)



Elvis Presley (1960)



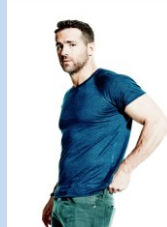
Burt Reynolds (1970)



Denzel Washington
(1980)



Brad Pitt (2000)



Ryan Reynolds (2010)



Dwayne Johnson
(2015)



Idris Elba
(2018)

21

Review

- **Cinderella Effect**
- **Cost of sex differs between males and females**
 - Males:**
 - > Sperm are cheap
 - > Do not go through pregnancy (do not bear energetic burden or any risks)
 - > Do not go through birth (no risks).
 - > Do not lactate (no direct energetic burden).
 - > Are fertile for longer (from 14 – 80 yrs?).
 - Females:**
 - > Eggs are expensive
 - > Invest more energy and risk (pregnancy, childbirth, and lactation).
 - > Are fertile for shorter (12 – 50's).
 - > Can have fewer children than males in lifetime (because of above).
- **What happens if males could be pregnant?**
Ex. Seahorses and Pipefish

22

“Universal Ideals for Attraction”

=

23

Universal Ideals for Attraction

Biological basis of attraction

- What are men looking for?

- 1.
- 2.
- 3.
- 4.
- 5.

- What are women looking for?

- 1.
- 2.
- 3.
- 4.
- 5.

24

"Beauty resides in order and symmetry and definiteness."

(Aristotle, 330 BC)

"Symmetry of parts towards each other and towards a whole . . . the beautiful thing is essentially symmetrical."

(Plotinus, 270)

1. Bilateral Symmetry

= _____

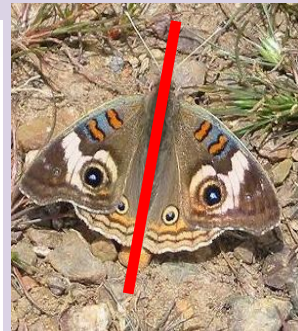
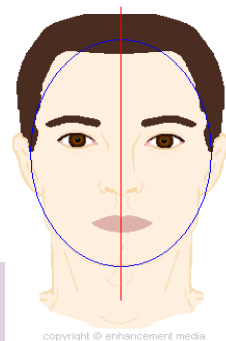
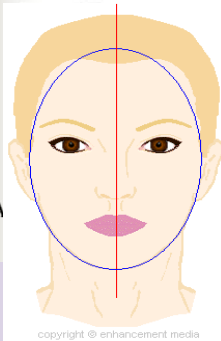
- Symmetry indicates developmental stability (good genes)
- Freedom from disease
- Better overall health

25

1. Bilateral Symmetry

Symmetry

Symmetry is an indicator of the extent to which an individual has escaped a multitude of environmental insults during development and therefore is an *indirect* measure of genetic fitness (asymmetry from *direct* genetic mutation is normally so severe that survival is limited)



26

1. Bilateral Symmetry

Ex. A) Randy Thornhill (U. New Mexico ecologist)

Studied scorpionflies

- Symmetrical males were more attractive to females (mated w/more females)
- Symmetry indicated fitness (good genes)
- Asymmetrical males unlucky! (mated less)



27

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Ex. B) Thornhill and Gangestad – 1994

Studied college students

- Measured body symmetry in 100 college students
- Students completed questionnaire and a diary for 2 months.
- Results:
 - > more symmetrical males had sex 3 – 4 yrs earlier than asymmetrical males.
 - > males & females w/symmetry had greater number of sexual partners.
 - > symmetrical students reported less illness or physical complaints. Asymmetrical students more physical complaints & illness.

28

1. Bilateral Symmetry

Ex. C) Thornhill and Gangestad - Studied 86 couples

- Women w/highly symmetrical partners were twice as likely to have orgasm during sex.
- Students completed questionnaire
- Results:
 - > more symmetrical males had sex 3 – 4 yrs earlier than asymmetrical males.
 - > males & females w/symmetry had greater number of sexual partners.

29

1. Bilateral Symmetry

Ex. D) Maria Sancho-Navarro, University of Valencia, Spain - Studied male and female college students

Handsome men have the best sperm – Click for reading assignment

- Had female students rate facial attractiveness and symmetry of 66 male students.
- Measured the male students' facial symmetry.
- Examined semen quality of males.
- Most attractive males had sperm with best morphology (shape) and motility (movement).



30

1. Bilateral Symmetry



31

1. Bilateral Symmetry



32

1. Bilateral Symmetry



33

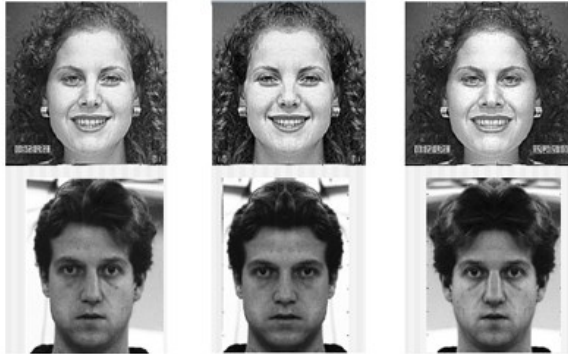
1. Bilateral Symmetry



34

1. Bilateral Symmetry

[+FACIAL ASYMMETRY+]



The above examples of faces are just to show you how different each half of our faces are. The pictures on the left are the original faces of the man and woman. The pictures in the middle are the left half of each face and then mirror-imaged to try to make an entire symmetrical face. A perfectly symmetrical face can be more appealing to many, as you can see in those pictures. As for the pictures on the right, the same thing was done but this time using the right half of the face. Clearly, the two halves of the face are not symmetrical at all and this gives rise to basically 2 different persons.

35

1. Bilateral Symmetry



Country Music Star **A?**

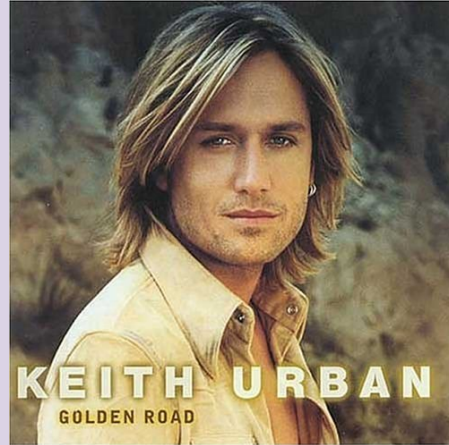
(Lyle Lovitt)

36

1. Bilateral Symmetry



Country Music Star **A?**
(Lyle Lovitt)



Country Music Star **B?**
(Keith Urban)

37

2. Beauty

- ❖ Typically rated by secondary sexual characteristics (those characteristics that arise after puberty (adulthood)).
- ❖ Ideals of beauty, even within an era & culture can vary – A LOT! (so let's just look at some universals).
- ❖ Beauty is an advertisement of health & vigor that can't be faked (at least BEFORE plastic surgery!).

38

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(at least BEFORE plastic surgery!).

Secondary sex characteristics w/testosterone

- _____
- _____
- _____
- _____
- _____
- _____

Secondary sex characteristics w/estrogen

- _____
- _____
- _____
- _____
- _____
- _____

39



Gal Gadot (2018 sexiest woman alive - UK)

Visual Sexual Signals in Females

- Enlarged breasts
- slender waist, wider hips
(WHR 0.6 – 0.8)
- Slender jaw and brow
- Less hair

Question:

(Why is hairlessness considered “attractive” (at least in western culture)?)

40



Visual Sexual Signals in Males

- Facial & chest hair
- Wider waist, wider chest
- WHR 0.8 – 1.0
- Heavy jaw and brow line
- Muscularity

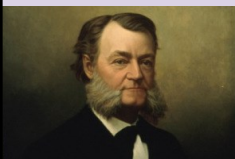
Idris Elba (2018 Sexiest Man alive. People magazine)

41

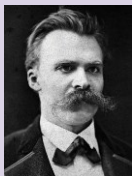
See Reading assign: "[Click for reading: Beards: Too Hip For Their Own Good](#)"

In ... the last century, we've seen many trends come and go in cycles. "Sideburns ..., then full beards," **Rob Brooks** from University of New South Wales says. "In the 1970s it was handlebar moustaches. In the 80s it was Magnum PI moustaches. In the 90s we saw a lot of clean shaven men, and now big bushy beards are back."

Sideburn
(mutton chops)



mustache



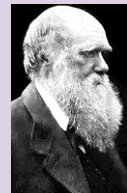
Goatee w/stache



Van Dyke



Full



42

See Reading assign: "[Click for reading: Beards: Too Hip For Their Own Good](#)"

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43

BEARD



before

...



after

Signals:

- **Sexual maturity**
- **Age**
 - > escaped illness, & dangers in environment.
 - > often comes w/accumulation of resources
- **Competition**
 - > not all males can grow one.

44

See Reading assign: "Beards: Too Hip For Their Own Good"

Chris Hemsworth



A)



B)



C)

45

See Reading assign: "Beards: Too Hip For Their Own Good"

Jason Momoa



A)

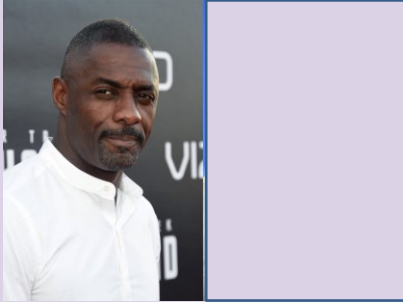


B)

46

See Reading assign: "Beards: Too Hip For Their Own Good"

Idris Elba



A)

B)

47

See Reading assign: "[Click for reading: Beards: Too Hip For Their Own Good](#)"

Beard study:

- ~1400 women and 213 men
- Men were photographed at different stages of beard growth (clean-shaven, light stubble, heavy stubble, and full beard).

Researchers varied the rarity of beard types.

(Subjects either saw all clean shaven, all with full beards, or six men from each of the four levels of beardedness.)

- Women rated the men's attractiveness.
- Results showed: "**Negative Frequency Dependent Selection**"

= _____



A)

B)

C)

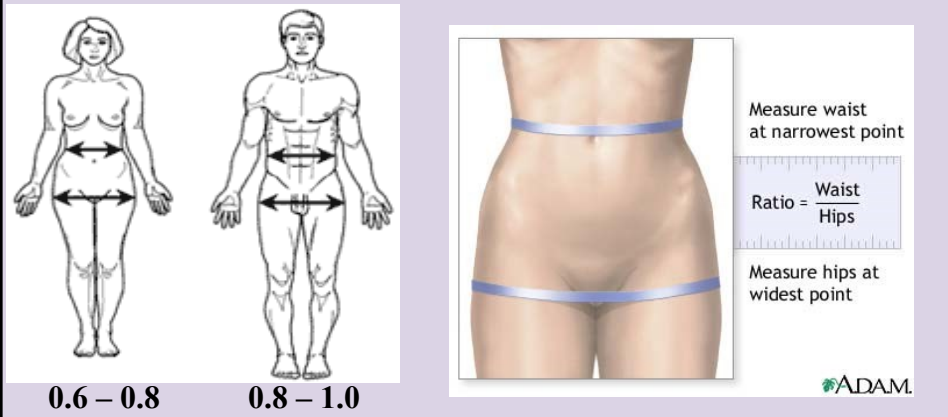
D)

48

1. Symmetry
2. Beauty

3. Waist to Hip Ratio (WHR)

WHR = measurement at waist / measurement at hip



49

1. Symmetry
2. Beauty

3. Waist to Hip Ratio

- ❖ Before puberty WHR in boys and girls is ~ 1.0
- ❖ At puberty, estrogen drives fat deposits towards breast and hip development, changing female WHR more towards 0.6 – 0.8.
- ❖ At menopause, WHR of females (and males) tends to get larger than 1.0

50

1. Symmetry

2. Beauty

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Female: WHR of 0.6 – 0.8

- associated with health
- greater fertility
- WHR above = less fertility

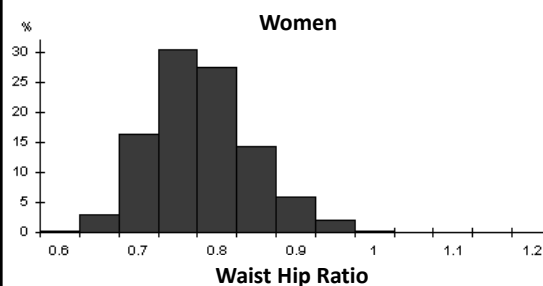
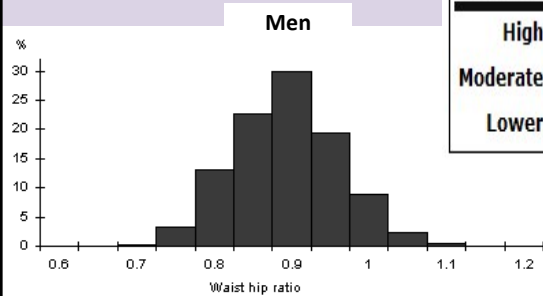
Male: WHR of 0.8 – 1.0

- associated with health
- greater fertility
- WHR above = less fertility

Ex. For every 0.1 increase in WHR fertility declines by 33%

51

3. Waist to Hip Ratio



Waist-to-Hip Calculation Overview

Health Risk Level	Women	Men
High Risk	> 0.85	> 1.0
Moderate Risk	0.80 - 0.85	0.90 - 1.0
Lower Risk	< 0.80	< 0.90

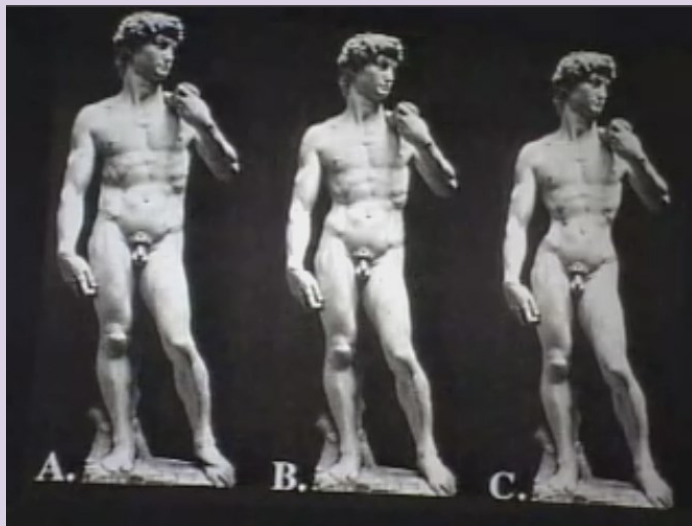
52

3. Waist to Hip Ratio



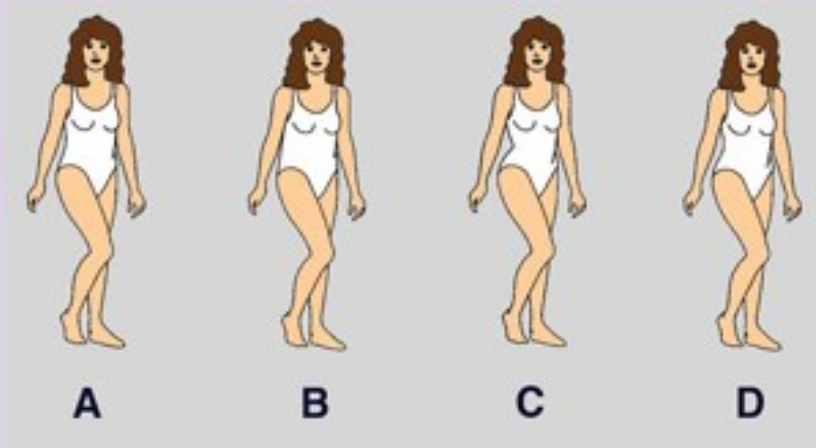
53

3. Waist to Hip Ratio



54

3. Waist to Hip Ratio



55

Waist to Hip Ratio a universal “HONEST ADVERTISEMENT” of health (Devendra Singh).



Reading assign: [An Evolutionary Theory of Female Physical Attractiveness & The Biology of Beauty](#)

56

1. Symmetry ✓
2. Beauty ✓
3. Waist to Hip Ratio ✓

Other indicators of attraction:

Body Odor

- Perfume / cologne multi \$ billion industry!
- Evidence that men / women detect something in body odor indicating mate quality.



Click [HERE](#) for Boom chicka wah wah

57

Other indicators of attraction:

Body Odor

Match-N-Sniff: The MHC T-Shirt Test

(a.k.a. the nose knows attraction)

MHT = major histocompatibility complex, most variable part of human genome. Plays role in immunity.

1. Men wore T-shirts overnight pick up body odor.
2. Researchers examined the male's MHT.
3. Women sniffed shirts & judged which smelled best.
4. Shirts that women said smelled best were those from men with MHT most different from their own.

[Better to mate w/those genetically diff from you for "hybrid vigor"!]

Source:

http://www.pbs.org/wgbh/evolution/library/01/6/l_016_08.html



58

From an Evolutionary Standpoint, Male's Reproductive Role Differs from the Role of a Female:

Males:

1. _____
2. _____
3. _____
4. _____

Females:

1. _____
2. _____
3. _____
4. _____

59

Advertisement of Male Resources



Male shrike advertising resources to females by putting impaling food on barbed-wire fencing.

Male tern mate-feeding a female

**Males provide resources
Females provide offspring**

Think humans were immune to these evolutionary forces?

60

Advertisement of Male Resources

Nope!



61

Advertisement of Male Resources



62

Advertisement of Male Resources

Inventory Clearance
Every KISS begins with Kay.®

- ▶ diamond
- ▶ color stone
- ▶ wedding
- ▶ gold
- ▶ men's
- ▶ watches

Every Kiss Begins With Kay?
(to get some you have to give some?)

63

Advertisement of Male Resources

Expensive jewelry and other "decorations"

Business suits \$250-2500 & expensive watches

mouth grills \$200-10,000

Buy the car, get the girl??

64

Resources and Sex



Everything you ever wanted to observe about human sexuality can be observed in one night on Bourbon St, New Orleans.

65

Resources and Sex

Is HE sexy?



Patriots owner Robert Kraft

66

Resources and Sex

Is HE sexy?



Patriots owner Robert Kraft

67

Resources and Sex

Is HE sexy?



Donald Trump

68

Resources and Sex

Is HE sexy?



Donald Trump

How did he land that?



69

Resources and Sex

Is HE sexy?



Donald Trump

How did he land that?



Oh baby!

\$

Cha- Ching!

70

Resources and Sex

Oh baby!

Is HE sexy?



A young Microsoft tycoon – Bill Gates

71

Resources and Sex

Oh baby!

Is HE sexy?



A young Microsoft tycoon – Bill Gates

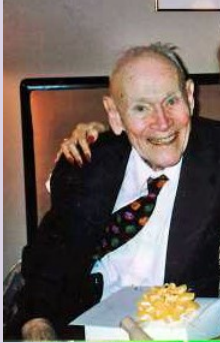


\$

Cha- Ching!

72

Is HE sexy?

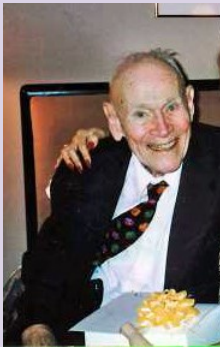


J. Howard Marshall

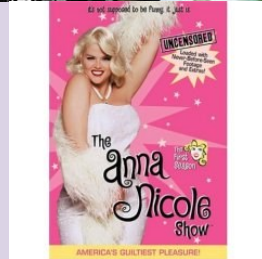
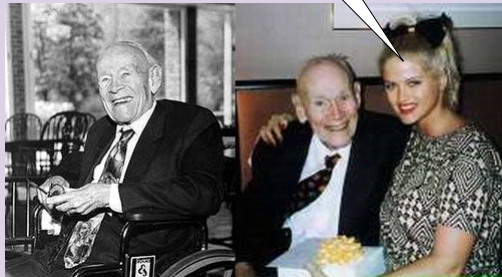
73

Resources and Sex

Is HE sexy?



J. Howard Marshall



74

Evolution and Sex in Music

[Click for YouTube Video:](#)
["Sharp-Dressed Man"](#)

[ZZ TOP](#)

[1983](#)



Clean shirt, new shoes
 and I don't know where I'm goin' to
 Silk suit, black tie,
 I don't need a reason why.
 <They come runnin' just as fast as they can
 Coz every girl crazy 'bout a sharp-dressed man.>

Gold watch, diamond ring,
 I ain't missin' not a single thing.
 And cufflinks, stick pin,
 When I step out I'm gonna do you in.
 <chorus>

Top coat, top hat,
 I don't worry coz my wallet's fat.
 Black shades, white gloves,
 Lookin' sharp, lookin' for love
 <chorus>

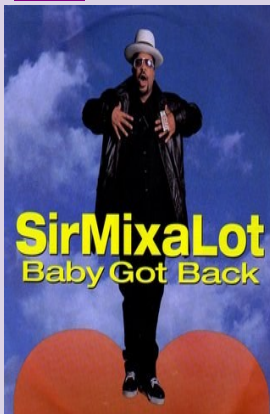
75

Evolution and Sex in Music

[Click for YouTube video:](#)
["Baby Got Back"](#)

[Sir Mix-A-Lot](#)

[1992](#)



I like big butts and I cannot lie	She's sweat, wet,
You other brothers can't deny	Got it goin' like a turbo 'Vette
That when a girl walks in with an itty bitty waist	I'm tired of magazines
And a round thing in your face	Sayin' flat butts are the thing
You get sprung, wanna pull out your tough	Take the average black man and ask him that
'Cause you notice that butt was stuffed	She gotta pack much back
Deep in the jeans she's wearing	So, fellas! (Yeah!) Fellas! (Yeah!)
I'm hooked and I can't stop staring	Has your girlfriend got the butt? (Hell yeah!)
Oh baby, I wanna get with you	Tell 'em to shake it! (Shake it!) Shake it! (Shake it!)
And take your picture	Shake that healthy butt!
My homeboys tried to warn me	Baby got back!
But that butt you got makes me so horny	
Ooh, Rump-o'-smooth-skin	
You say you wanna get in my Benz?	
Well, use me, use me	
'Cause you ain't that average groupie	
I've seen them dancin'	
To hell with romancin'	

76

Evolution and Sex in Music

"No Scrub"

TLC

~2000



A scrub is a guy that thinks he's fine
And is also known as a buster
Always talkin' 'bout what he wants
And just sits on his broke ass
So no, I don't want your number
I don't wanna give you mine and no
I don't wanna meet you nowhere, no
I don't want none of your time

<I don't want no scrub
A scrub is a guy that can't get no love from me
Hangin' out the passenger side
Of his best friend's ride
Tryin' to holler at me> ... Repeat

But a scrub is checkin' me
But his game is kinda weak
And I know that he cannot approach me
Cuz I'm lookin' like class and he's lookin' like trash
Can't get with no deadbeat ass
So no!

77

Evolution and Sex in Music

"My Humps"

Black Eyed Peas

2005



3.45 min

What you gon' do with all that junk?
All that junk inside your trunk?
I'ma get, get, get, get, you drunk,
Get you love drunk off my hump.
My hump, my hump, my hump, my hump, my hump,
My hump, my hump, my hump, my lovely little lumps.

I drive these brothers crazy,
I do it on the daily,
They treat me really nicely,
They buy me all these ice-ys.
Dolce & Gabbana,
Fendi and then Donna
Karan, they be sharin'
All their money got me wearin'
Fly gearrr but I ain't askin,
They say they love my ass 'n,
Seven Jeans, True Religion's,
I say no, but they keep givin'
So I keep on takin'
And no I ain't taken
We can keep on datin'
I keep on demonstrating.

My love, my love, my love, my love
You love my lady lumps,
My hump, my hump, my hump,
My humps they got u,
She's got me spending.
(Oh) Spendin' all your money on me and spending time on me.
She's got me spendin'.
(Oh) Spendin' all your money on me, on me, on me

78

Evolution and Sex in Music

"Fuck You" Cee Lo Green

2010



I see you driving 'round town with the girl I love
and I'm like,
"FUCK YOU!" (Ooo,ooo,oooo)
I guess the change in my pocket wasn't enough
I'm like, "FUCK YOU! And fuck her too."
I said,
"If I was richer, I'd still be with ya"
Ha, now ain't that some shit?
And although there's pain in my chest
I still wish you the best
With a...
"FUCK YOU!" (Ooo,ooo,ooo)

Yeah, I'm sorry
I can't afford a Ferrari
But that don't mean I can't get you there
I guess he's an Xbox and I'm more Atari
But the way you play your game ain't fair
I pity the fool that falls in love with you
(Oh shit, she's a gold digger)
Well (just thought you should know, nigga)
Ooh, I've got some news for you
Yeah, go run and tell your little boyfriend

Now I know that I had to borrow
Beg and steal and lie and cheat
Tryin' to keep ya, tryin' to please ya
'Cause bein' in love with your ass ain't cheap,
I pity the fool That falls in love with you
(Oh shit, she's a gold digger)
Well (just thought you should know, nigga)
Ooh, I've got some news for you

Ooh, I really hate yo ass right now...

79

She take my money when I'm in need
Yeah, she's a triflin' friend indeed
Oh, she's a gold digger way over town
That digs on me (uh)
Now I ain't sayin' she a gold digger
But she ain't messin' with no broke niggas
Now I ain't sayin' she a gold digger
But she ain't messin' with no broke niggas
Get down girl, go'n 'head get down
Get down girl, go'n 'head get down
Get down girl, go'n 'head get down
Get down girl, go'n 'head

Cutie the bomb, met her at a beauty salon
With a baby Louis Vuitton under her underarm
She said, "I can tell you rock, I can tell by your charm
Far as girls you got a flock
I can tell by your charm and your arm"
But I'm lookin' for the one, have you seen her?
My psychic told me she have a ass like Serena
Trina, Jennifer Lopez, four kids
And I gotta take all they bad ass to ShowBiz?
Okay, get yo' kids, but then they got their friends
I pulled up in the Benz, they all got a pen
We all went to din' and then I had to pay
If you fuckin' with this girl then you better be paid
You know why?
It take too much to touch her
From what I heard she got a baby by Busta
My best friend say she used to fuck with Usher
I don't care what none of y'all say I still love her

"Gold Digger" Kanye West, Jamie Foxx 2010



[chorus]

18 years, 18 years
She got one of yo' kids, got you for 18 years
I know somebody payin' child support for one of his kids
His baby momma car and crib is bigger than he is
You will see him on TV any given Sunday
Win the Super Bowl and drive off in a Hyundai
She was supposed to buy your shorty Tyco with your money
She went to the doctor, got lipo with your money
She walkin' around lookin' like Michael with your money
Shoulda got that insured, Geico for your money (money)
If you ain't no punk holla, "We want prenup"
"We want prenup!", yeah
It's something that you need to have
'Cause when she leave yo' ass she gone leave with half
18 years, 18 years
And on her 18th birthday, he found out it wasn't his

[chorus]

Etc.....

Warning - language

80

Your ideas???

81

Review

- **Universal Ideas of Attraction**

- Men looking for:

1. Symmetry = the degree to which L & R sides of body match
2. Beauty (indicator of good genes , development, & resources)
3. Youth (higher fertility in females)
4. Waist-to-Hip Ratio (WHR) (0.6 – 0.8) in females
5. Many mating opportunities (Males less choosy)

- Women looking for:

1. Symmetry
2. Beauty
3. Waist-to-Hip Ratio (0.8 – 1.0) in males
4. Resources
5. Fidelity & relationships (Females more choosy. WHY???)

- **Symmetry studies**

Randy Thornhill (scorpionflies), Thornhill and Gangestad (college students), Thornhill and Gangestad (couples), Maria Sancho-Navarro (handsome men and sperm)

- **Beauty & secondary sexual characteristics based on hormones in men and women.**

82

Review

- **Body odor and attraction (MHC T-shirt test)**
- **Waist Hip Ratios & attraction**
 - Difference between men and women
 - WHR and health
- **Beauty & secondary sexual characteristics based on hormones in men and women.**
- **Evolutionary difference in roles for men & women**

Males:

1. Provide resources
2. Compete w/other males (for females, rank, & resources)
3. Take more “risks” (for females, rank, & resources)
4. Seek more reproductive opportunities (less choosy)

Females:

1. Provide offspring (or evidence that they can)
2. Compete w/other females (for males, rank, & resources)
3. Take fewer risks (bearing & raising children primarily on mom. If she dies, they die)
4. Seeks fewer but higher quality reproductive opportunities (more choosy)