

## The Human Animal



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## Estrus and Signs of Fertility

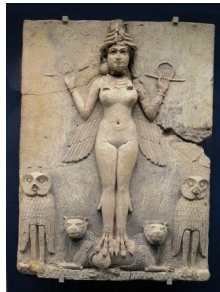


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## Assessing Women's Fertility

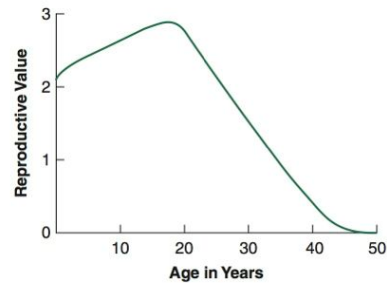
- Fertility cannot be assessed directly
- Reproductive Value
  - # of offspring likely to have in the future
- Cannot be known exactly either but correlates strongly with certain cues



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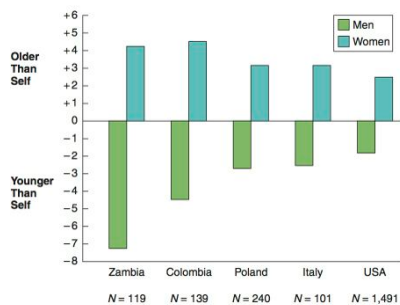
## Reproductive Value and Age



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## Preferred Age Difference



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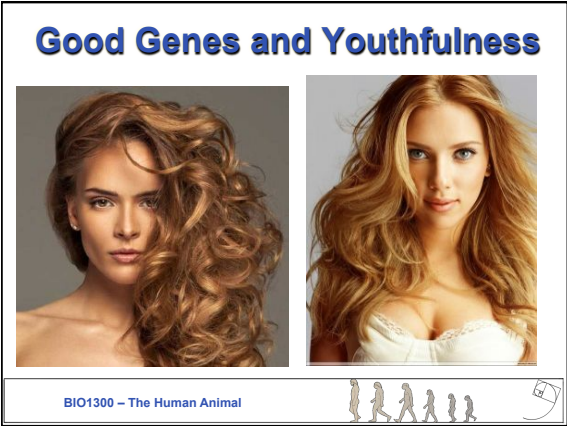
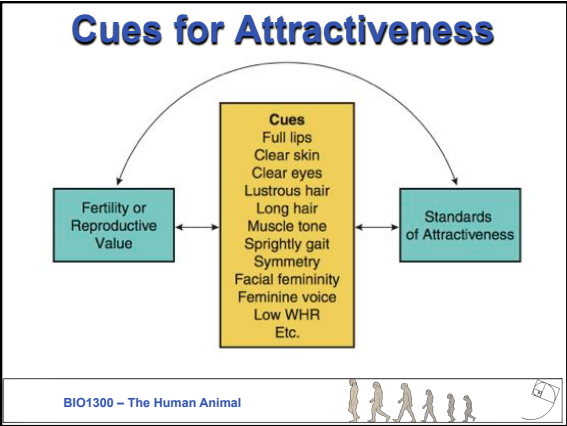


## Age Preference in Teens



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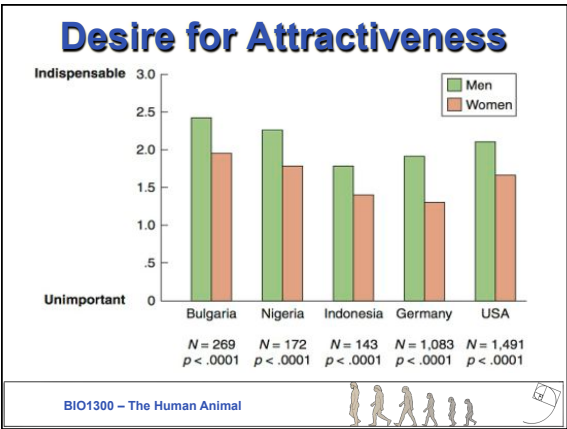




### Femininity and Youthfulness

- Fullness of lips, large eyes, thin jaws, small chin, high cheek bones
- High voice, short sprightly gait
- All are associated with higher estrogen levels
- All are features that are gradually lost with age

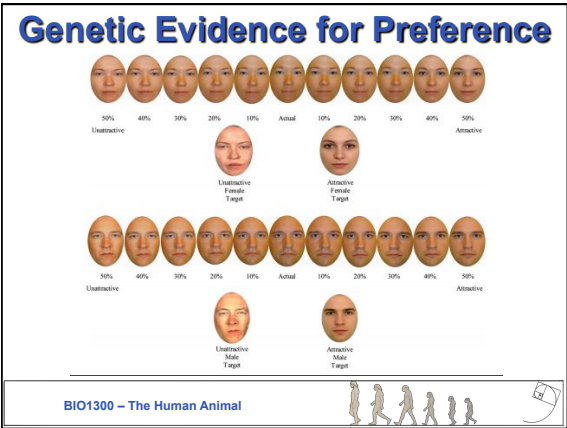
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### Genetic Evidence for Preferences

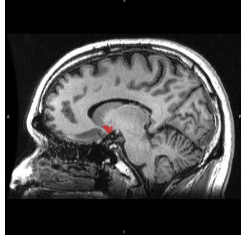
- Emerges early in life
- Presented with more or less attractive faces, infants stared longer at attractive ones
- No communication or training possible
- Shows innateness

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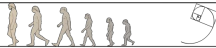


## Neurophysiology of Attractiveness

- Heterosexual males hooked up to fMRI
- Shown pics of
  - Attractive vs. unattractive female faces
  - Attractive vs. unattractive males faces
- Only attractive female faces cause nucleus accumbens to light up

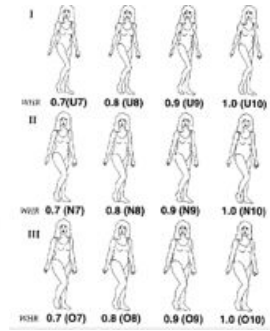


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## Body Attractiveness

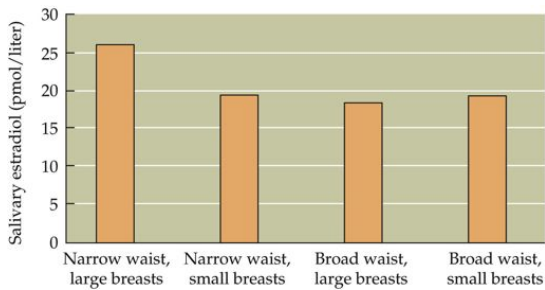
- Preference for body weight varies according to resource availability
- However, overall a low waist-to-hip ratio is preferred
- Big hips suggest good birthing potential
- Thin waist implies not pregnant



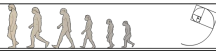
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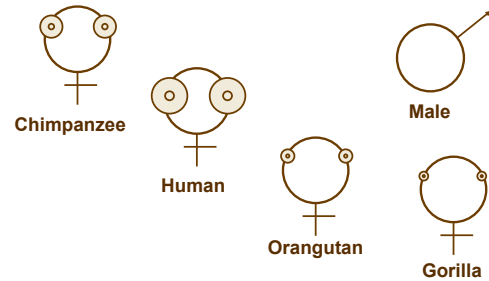
## Selection for Fertility



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## Human Breasts as Secondary Sexual Characters



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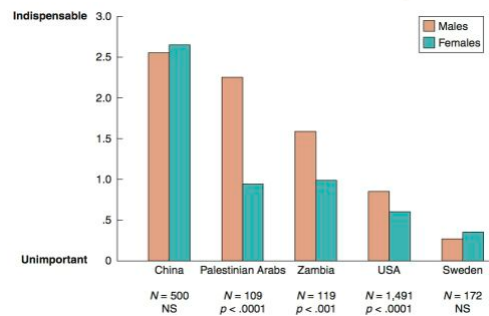
## Selection for Fertility



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## Desire for Chastity



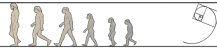
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## Mate Guarding



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## Marriage as Mate Guarding



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## Male Benefits from Marriage

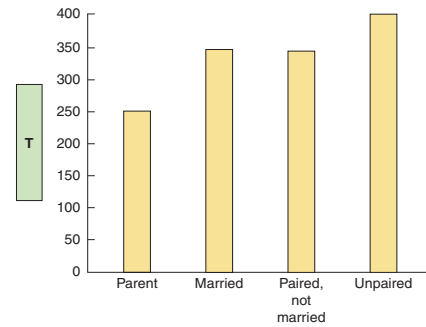
- Acquire a mate and/or a better quality mate
- Increase certainty of paternity
- Increase survival success of offspring
- Increase reproductive success of offspring through paternal investment
- Gain allies through family coalition



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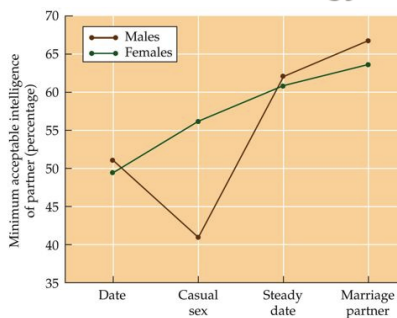
## Testosterone and Relationships



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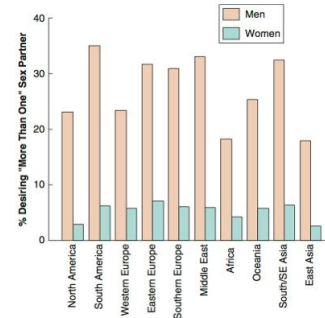
## Conditional Strategy



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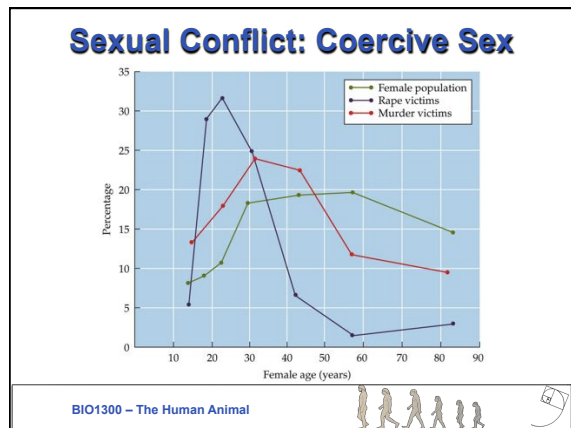
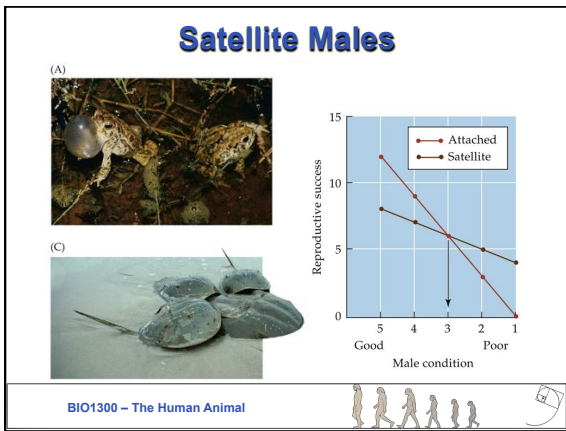
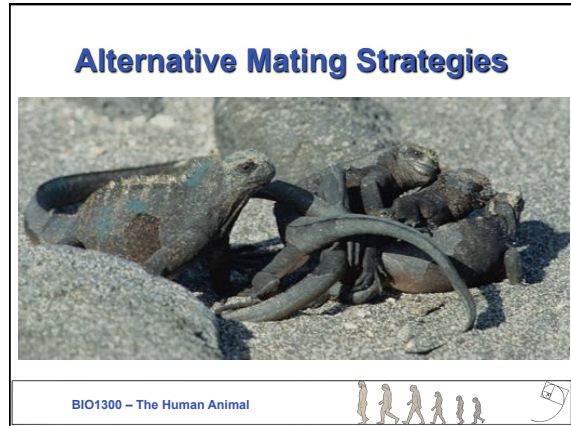
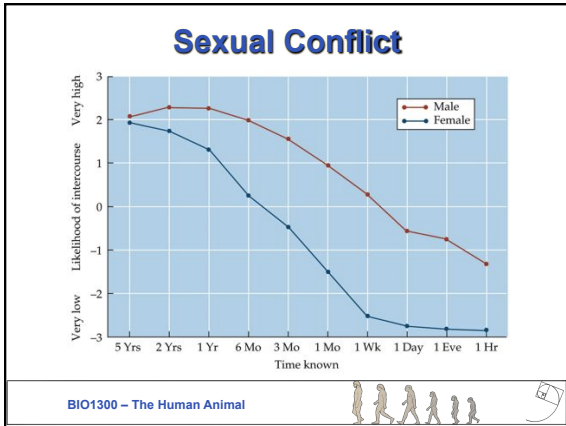


## Sexual Conflict



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## Humans Murder Each Other



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## Tribal Murder and Warfare



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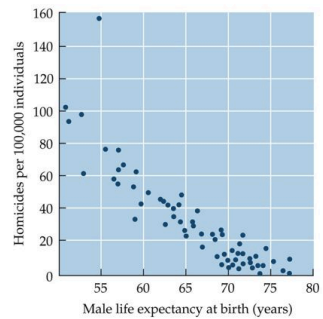
## The Sexy Bonobo



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## Why Humans Murder?



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## The Solution?



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