Hasset et al

Monkey Toy preference:

Background

Sex differences in toy preference based on the <u>Nature</u> / <u>nurture</u> <u>debate</u>
Is it one's upbringing with societal pressures of gender stereotypes? Is it the features of the toy itself? Is it biological pre-programming that affect toy choice and play?
Research findings among boys and girls has shown: Boys tend to interact With Masculine type toys (whele as girls tend to favor feminine-type toys (e.g. stuffed animals)
Studies looking at bio differences among boys & girls point to the notion that girls with CAH (congenital adrenal hyperplasia) producing more androgens favor masculine toys even with it was a Hines, 2002) looked into sex differences in nonhuman primates with human toys available
*The study used a single masculine or feminine toy and recorded how long the monkey would play with it Contradicting human boy & girl play trends, the male monkeys spent similar time with both masculine & feminine toys, whereas the female monkeys spent more time with the feminine toys
Hassett et al. argues that this do not display to n
Overall, to investigate Potential Sex differences for toy preference To investigate if toy preference is related to biological factors rather than socialization To compare the toy preference of male and female Rhesus monkeys to previous research findings for human children
Hypothesis Toy preference among sexes is due to biological causes (that influence behavioral and cognitive biases) rather than learned differences
Type of study: Field experiment

Variables of the study IV= (natural IV) (masculine) or plush (feminine) (natural IV) DV= with toy with toy score Design of the study (a) gender of monkey (b) one exposure to each available toy (one truck was repeated) Sample from Yerkes National Primate Vla Emory University in ATL females and 21 males met the criteria for the study Sample chosen from a large, Social aroup of 135 that have lived there for 25+ years...14 excluded b/c of participating in other prenatal hormone study & 39 babies excluded as it was too difficult to tell them apart in observations. Monkeys were pre-coded for social rank & age (used for later data analysis) Social rank was previously determined by behavioral observations of grooming, dominance, and submissive behavior er Social Status compared to the groomer E.g.- monkey being groomed ha **APPARATUS** Apparatuses Available toys were categorized by object properties rather than traditional gender 'Wheeled' toys 'Plush' toys Winnie-the-Pooh Wagon Truck Raggedy-Ann Car Scooby-Doo

Construction vehicle

Shopping cart

(one truck was repeated)

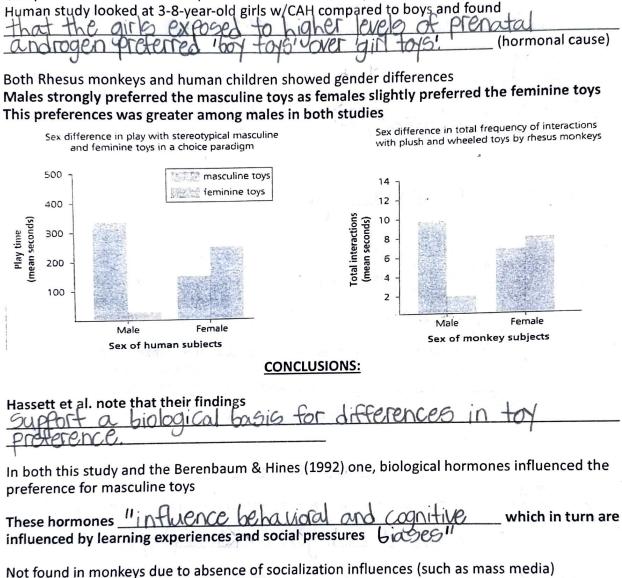
Dump truck

Koala hand puppet

Armadillo

Teddy bear

Turtle



Summary

Comparison of Rhesus monkeys to human children study (Berenbaum & Hines, 1992)

Not found in monkeys due to absence of socialization influences (such as mass media) Found in humans, such as if boys were to choose to play with 'girl toys,' they would likely receive negative feedback from society than if girls were to choose to play with 'boy toys'

May explain why boys are much more likely to choose Masculine to 5 whereas girls are more likely to have variation in toy choices.

ETHICS

<u>Study was met ethical guidelines while working with animals</u>
<u>Study conducted in accordance with NIH Guide for the Care & Use of Laboratory Animals</u>
Took place at the Yerkes National Primate Research Center

Approved by the Emory University Ethical committee on animal care and use

Proper housing Lived in Social family groups (as in the wild) in large, safe enclosures with
Lived in Social Hamily groups (as in the wild) in large, safe enclosures with access to indoor temperature-controlled areas and outside areas
Fed monkey Chow 2x daily & fruits/veggies 1x daily
was always available was always available
Unlikely distress
Were breatraised in Cartivity, familiar with keepers who entered the facility &
cared for them
did not pose potential harm
reduced researcher involvement
Strengths
Standardized Procedure with counterbalancing Counterbalancing
Use of video cameras
Use of inter-rater reliability
Use of a set behavioral checklist
Consideration and of potential confounding variables of social rank & age
data analysis
Weaknesses
Only selected data used
Comparing the monkey to human child data was not identical as the monkey toys were based
on category (wheeled or plush) and the human data was on gender stereotyped toys
no descriptive gual data included
Lower generalizability
Nature/Nurture Debate
Nature support
Findings provide evidence that biological differences (hormones) can play a main role in toy
preference among the sexes among human and non-human primates
In particular, the amount of androgen looks to play a role.
Jan more to a tolo.
Nurture support
Social rank among the female monkeys positively correlated with time spent interacting with
both wheeled and plush toys
But then again, female dominance can be affected by testosterone levels, so that could also be
nature side
Application to Franches Life (Usef Lease)
Application to Everyday Life (Usefulness) May be helpful in choosing toys to give as gifts
Can be helpful for toy makers and advertisers
de neipration toy makers and advertisers