# GENDER

## biological influences on gender development: genes & hormones

#### genes

- biological sex determined at conception by sperm
  - females have a pair of X chromosomes XX
  - $_{\circ}\;$  males have both X & Y chromosomes  $\boldsymbol{XY}\;$
  - egg contributes X chromosome
  - sperm contributes X or Y chromosome
    - determines sex
- up until 6 weeks, all foetuses contain
   undifferentiated gonads, made up of 2 systems:
  - Wolffian system
    - precursor to the male sex organs
    - Y chromosome produces protein causes gonads to become testes
  - Mullerian system
    - precursor to the **female sex** organs
    - Y chromosome protein not present gonads develop into ovaries

#### hormones

- once gonads have developed, further sexual development & sex differences triggered by sex hormones
  - testes present = androgens released (testosterone & dihydrotestosterone)
    - prenatally influence development of male organs - Wolffian system develops
      - > masculinise the brain
        - testosterone slows down & speeds up development of some parts of brain
        - testosterone increases size of the sexually dimorphic nucleus
          - explains why men are better at spatial tasks & women better at verbal tasks
          - right hemisphere concerned with spacial ability
    - postnatally activate sex organs during puberty
    - if not present, Mullerian system develops
      - > no hormones needed for female sex organs/ reproductive system to develop

#### REDUCTIONIST

- > fails to recognise role of **environmental factors** that influence gender
- biology can't be only shaping factor in gender development
  - gender differences between cultures
    - cross cultural differences must have other causes than biology
    - all have the same biological mechanisms influencing gender
    - therefore can't be the only factor affecting gender differences

DAVID REIMER -	gender reassignment		gender identity not female - unhappy being raised
• born healthy male b	aby along with identical twin		<u>as a girl</u>
8months old when p circumcision that we	enis was removed in a ent wrong		<ul> <li>age 14 told about his gender reassignment - decided to revert to being male</li> </ul>
parents were advised	l to raise as a girl	Þ	supports theory as despite being nurtured as a female, still identified as male
- 22months he ha	d his testes removed		, shaqus nature (aenes) blau stranger rale in gender
- during puberty	was given oestrogen		development than nurture (upbringing) as unaware of
- age 13 was suffer	ring from depression		being male

+ natural experiment	- low internal validity - raised 22mnths as male
<ul> <li>high ecological validity</li> </ul>	<ul> <li>critical stage in gender identity</li> </ul>
+ low external validity	<ul> <li>could have influenced gender development</li> </ul>
<ul> <li>case study - not generalisable or replicable</li> </ul>	<ul> <li>twin brother may have socialised him to become more male</li> </ul>
DIAMOND - rats	• studies support theory that hormones have an impact on
<ul> <li>injected pregnant rats with testosterone</li> </ul>	gender development
<ul> <li><u>female offspring male like genitals &amp; attempted to</u> mate with other females</li> </ul>	<ul> <li>high testosterone levels created female offspring that exhibited male behaviour &amp; physiology</li> </ul>
GORSKI - rats SDN	<ul> <li>normal levels of testosterone developed normally as females</li> </ul>
repeated Diamond's study	+ lab studies
<ul> <li>female offspring had sexually dimorphic nucleus</li> </ul>	<ul> <li>high scientific validity</li> </ul>
same size as males	<ul> <li>standardised procedure - replicable &amp; objective</li> </ul>
YOUNG - monkeys	- animal studies
<ul> <li><u>female monkeys exposed to male hormones in</u></li> </ul>	<ul> <li>low population/external validity</li> </ul>
prenatal development showed more rough & tumble play compared to females not exposed to male hormones	<ul> <li>ethical issues</li> </ul>

- + overall, consistent findings lend reliable support for theory
- however, research does not rule out role of nurture
  - · identified link between biology & gender development, but little known about environment
- animal studies
  - can't generalise fully due to different species & genetic makeup
  - · however, does show a clear link between testosterone & gender
  - still partially supports theory
- + results still offer good support the theory no other way to test scientifically

#### SOCIAL SENSITIVITY

- > very hard to research the role of genes in gender development
  - unethical to manipulate/challenge someone's sex or gender
  - very sensitive & personal topic
  - most gender development happens before puberty children can't consent
- > not ethical to manipulate hormones & genes in humans, so animals used
  - $_{\circ}~$  ethically it is unreasonable to put animals through
    - still living beings & unable to consent
  - difficult to generalise results = difficult to validate animal testing

## evolutionary approach to gender development: parental investment

parental investment				
<ul> <li>anything parent does to increase the offspring's chances of survival &amp; reproduction</li> </ul>				
<ul> <li>at the cost of the parent's evolutionary fitness in other areas</li> </ul>				
• <b>minimum</b> parental investment :	required from:			
- father = time taken to get a fem	nale pregnant			
<ul> <li>mother = 9 months of pregnancy</li> </ul>				
> during this time the father c	an potentially father many other childr	en		
> women have more vested int	erest in making sure child survives con	npared to men		
• the <b>differing</b> level of initial parent	tal investment affects gender roles			
parental care	→ mate selection	sexual jealousy		
• breast feeding	• fertility & faithfulness	• aggression		
<ul> <li>infants of early humans breast fed until the age of 2 to survive</li> <li>women obliged to care of small children</li> <li>dependancy of child</li> <li>human children extended period of childhood</li> <li>born relatively immature to allow child birth - dependant on a carer</li> <li>time &amp; energy</li> <li>women spend much time &amp; energy on pregnancy, birth &amp; care for a child they know is theirs</li> <li>adaptive for fathers to spend less time &amp; energy on parental care</li> </ul>	<ul> <li>needed by men to ensure child is theirs</li> <li>men need to select an appropriate mate &amp; ward off competition</li> <li>judge fertility by assessing physical appearance (young, attractive &amp; healthy)</li> <li>in men's interest to have many sexual partners - can father limitless amounts of children</li> <li>investment of resources</li> <li>needed by women to ensure offspring's survival</li> <li>women less to gain from infidelity = more likely to remain faithful</li> </ul>	<ul> <li>to be a good provider &amp; protector (&amp; ward off competition) men show a higher level</li> <li>can never be sure child they are spending resources on is theirs</li> <li>technique to guard the partner's faithfulness</li> </ul>		

#### DETERMINISM

- theory states men & women always going to act a certain way that is in line with their set adaptive response to parental investment & gender
  - <sup>°</sup> "men will always mate with younger women" & "women will always mate with richer men"
- suggests behaviour is determined through evolution & no free will is involved

#### BUSS - 37 cultures

- surveyed 37 cultures in 33 countries, 10,000 participants
- asked to rate age, intelligence & sociability on how important they were in a sexual partner
- men = physical attractiveness more important
- women = good earning power & high occupational status more important
- <u>all cultures = both preferred man to be older</u>
- supports theory
  - men valued physical attractiveness more = looking out for the fertility of the women
  - women valued earning & status = need to guarantee survival of offspring
  - preference for the man to be older = men desire fertile women/women value resources & protection

#### **ANDERSON** - college tuition

- willingness of men to pay for children's college education as a means of assessing parental investment
  - <u>most willing to pay for their child when still</u> <u>living with the mother</u>
  - <u>however</u>, did not discriminate financially <u>between children & step children</u>

- + cross culture
  - shows universal behaviour behaviour is an adaptive, evolutionary response
- + large varied sample
  - high external/population validity
- self report survey
  - social desirability/researcher bias reduced internal validity

- some support to theory men provided resources for their offspring
- however, did not discriminate resources against children not biologically theirs
  - goes against theory of resource investment
  - maybe trying to impress women & not the parental investment
- > observation
- + natural results no researcher effects
- can't determine cause & effect possible EVs
- overall, difficult to test the theory empirically & whether behaviours are adaptive
  - can only assume how gender roles developed through evolution no evidence
- therefore not very convincing must be other factors explaining gender development better
  - biological theory much physical evidence that hormones & brain physiology directly linked to gender differences

#### SOCIAL SENSITIVITY

- very rigid & outdated view of gender roles
  - males have no role of care/emotional attachment to child
  - women must be primary caregiver/rely on men to provide/shouldn't do anything but fulfil motherhood roles
- o does not support idea of paternity leave fathers have no other investment but resources

### evolutionary approach to gender development: empathising-systemising theory

#### - Baron Cohen

- female brain hard wired for empathy
  - > cognitive skill for identifying other's emotions & thoughts & responding with appropriate emotion
  - > evolutionary advantage to female carers
    - more sensitive to needs of child
- male brain hard wired for systemising
  - > skills such as finding out, building & predicting systems
  - > evolutionary advantage to hunter-gatherers
    - more instinctive in hunting skills
- systemising & empathising depend on different regions in the brain
  - > autism = extreme male brain maximum systemising, minimal empathising

#### DETERMINISM

- states that men & women will always act in a certain way
  - o in line with how brain biologically determined to display certain characteristics/gender differences
- issues with social sensitivity
  - very rigid & outdated view of gender roles
  - suggests men unable to be empathetic & females not good at systemising
    - untrue as each characteristic shown by each gender to some extent
    - doesn't explain why some women don't want children

ł	BAKTI - babies & mobiles	+	highly controlled lab experiment
Þ	researchers not told sex of baby		<ul> <li>allowed accurate measures &amp; replicable method</li> </ul>
Þ	babies shown a human face & a mobile		<ul> <li>high external validity</li> </ul>
	- length of time baby spent looking at each	- :	researcher bias - low internal validity
Þ	videoed to show where they looked & analysed data		<ul> <li>looking for results supporting theory</li> </ul>
	<ul> <li>boys spent more time looking at mechanical object (mobile)</li> </ul>		<ul> <li>however, controlled by hiding gender</li> </ul>
	<ul> <li>girls spent more time looking at human face</li> </ul>		
•	supports theory as shows innate response to empathising/ systemising disposition of brain		
	<ul> <li>boys = mobile = innate response to systemising//girls = face</li> <li>innate response to empathising</li> </ul>		
•	shows gender differences due to inherited cognitive differences which are adaptive responses to evolutionary gender roles		

#### **BARON COHEN**

- questionnaire to assess ability to empathise & systemise
- males score higher on systemising quotient
- females score higher on empathising quotient
- some score higher on opposite
- generally supports theory as genders aligned with predicted quotient
- shows clear divide between stereotypical gender behaviours
   may be due to brain differences in biological sexes
- bowever, not always true

- researcher bias low internal validity
  - own theory, so may have looked for/manipulated results
- > questionnaire
- quantified systemising/empathising objective measure
- social desirability bias

- + overall theory has reliable research support due to consistency
- however, low validity
  - researcher bias internal validity
  - lab conditions external validity

#### SOCIAL INFLUENCE

- b differences could be better explained by the way each gender is stereotypically nurtured
  - some show higher levels of men empathising//females systemising
    - cultural differences show nurture
    - environmental factors involved

## biological influences on gender development: biosocial approach

- focuses on the interaction between biological & social factors
  - **biology = foundation** on which social factors built
  - emphasises social factors as cause for gender differences
- > innate characteristics, sex & behaviour of newborn affect way carers behave towards them
  - behave differently whether the baby is male or female
    - female babies
      - > may act more **passively** = may make the carer interact more calmly
        - » shapes baby's behaviour into more 'female' gender roles
    - male babies
      - > may appear more **boisterous** = may be treated differently & given different toys to play with
        - shapes the baby's behaviour into more 'male' gender roles
- ragues that child's **gender identity** consistent with way it's been **raised** subtly different in boys & girls
- acknowledges that gender is **flexible** 
  - what it means to be male or female changes over time & culture
  - therefore how gender of a child is constructed varies according to time & place raised

#### NATURE/NURTURE

- emphasises role of nurture
  - focuses on role that a carer plays in determining child's gender
  - socialisation stronger impact than biological factors/sex
- recognises nature/biological factors/sex are the foundation of socialisation
  - thus nature has some role to play in gender development

#### SMITH & LLOYD - babies dressed opposite

- studied how adults treated babies differently according to their perceived gender
- dressed & named 6 month infants as the opposite sex
- A asked adults to play with them
  - <u>adults used name & clothing to prompt</u> <u>interaction & toy choice</u>
  - babies perceived as boys given hammer
  - babies perceived as girls given dolls

- supports theory as adults treated babies differently according to gender
  - shows sexes are socialised differently according to gender = conditioned into behaving according to certain gender roles
- low internal validity
  - not a lab experiment no control of EVs
- demand characteristics
  - may have worked out purpose of experiment & played along

<ul> <li>low external validity</li> <li>case study - not generalisable or replicable</li> </ul>	<ul> <li>born healthy male baby along with identical twin</li> <li>8months old when penis was removed in a circumcision that went wrong</li> <li>parents were advised by a psychologist, Dr Money, to be raised as a girl <ul> <li>22months he had his testes removed</li> <li>during puberty was given oestrogen</li> <li>age 13 was suffering from depression</li> <li>gender identity was not female - unhappy being raised as a girl</li> <li>age 14 told about his gender reassignment - decided to revert to being male</li> </ul> </li> <li>born healthy male baby along with identical twin muture (upbring) with muture (upbring) with muture (upbring) being male</li> <li>shows nature (genes) play stronger r development than nurture (upbring) being male</li> <li>natural experiment</li> <li>high ecological validity</li> <li>low internal validity - raised 22 mod</li> <li>critical stage in gender identity</li> <li>could have influenced gender of twin brother may have socialise become more male</li> <li>low external validity</li> <li>case study - not generalisable or</li> </ul>	role in gender ging) as unaware of onths as male by development sed him to or replicable
---	--	--

+ overall supporting evidence stronger than challenging evidence

• poor control of challenging evidence weakens contradiction of biosocial approach

#### REDUCTIONIST

- approach considers that biology plays a part in gender development
  - does not consider strength of the role of hormones & genes in gender development (Diamond et al)
- hard to untangle role that **genes & hormones**//**socialisation** play
  - sex of the child will undoubtably influence how they are treated
  - no method to investigate which has more influence

## biological influences on gender dysphoria: biosocial approach

argues gender is <b>flexible</b>	BSTc
<ul> <li>focuses on the interaction between biological &amp; social/cultural factors</li> </ul>	<ul> <li>hormonal imbalance cause BSTc to develop in line with the opposite gender of biological</li> </ul>
<ul> <li>biology = foundation on which social factors are built</li> </ul>	sex <ul> <li>located in the <b>hypothalamus</b> &amp; fully</li> <li>developed by 5 years</li> </ul>
<ul> <li>how baby behaves affects how it is socialised &amp; therefore eventual gender identity</li> </ul>	<ul> <li>influences sex differences in behaviour &amp; gender identity</li> </ul>
<ul> <li>normonal impaiances</li> <li>may make babies behave more in line with opposite sex</li> </ul>	<ul> <li>BSTc is larger in men, or larger in women with gender dysphoria &amp; vice versa</li> </ul>
<ul> <li>initial biological foundation of gender dysphoria</li> </ul>	<ul> <li>theory argues gender dysphoria in children with BSTc of opposite sex <b>depends</b> on <b>how</b></li> </ul>
<ul> <li>Sex &amp; gender normones</li> <li>hormones that trigger development of sex &amp; gender may not work properly on physiology associated with sex - brain, gonads or genitals</li> </ul>	<ul> <li>socialised</li> <li>child's gender identity consistent with the way it is raised</li> </ul>
<ul> <li>sex (determined physically by gonads &amp; genitals) could be male</li> </ul>	<ul> <li>culture affects way child is socialised</li> <li>therefore also the consequences of the initial hormonal differences</li> </ul>
<ul> <li>gender (as determined by the brain) could be female</li> </ul>	<ul> <li>UK recognises gender dysphoria = sex</li> <li>realignment surgery logical outcome</li> </ul>
<ul> <li>could be caused by additional hormones in mothers system (androgen insensitivity)</li> </ul>	<ul> <li>parent's awareness of this may alter the way</li> <li>the child is raised</li> </ul>

#### NATURE/NURTURE

- > acknowledges gender dysphoria is result of complex interaction of nature & nurture
- however, states key role in gender dysphoria is nurture
  - how a child is raised is = most important factor in gender identity
- raises questions
  - BSTc sized for opposite sex socialised as biological sex
    - biosocial approach argues gender dysphoria would not result nurture overrides nature
  - may be nature (hormonal differences that influence the BSTc) are enough to cause gender dysphoria
    - biosocial approach is not convincing

#### **ZHOU** - transexual brains

- studied 6 male to female transexual's brains in postmortem
  - BSTc resembled the average female's
    - couldn't be wholly accounted for by hormones taken in adulthood
    - suggests BSTc responsible for gender identity & therefore gender dysphoria
- supports theory to an extent
  - suggests such babies will behave as opposite biological sex = socialised as opposite sex = gender dysphoria

- however, shows gender may be purely biological
  - BSTc may biologically determine gender dysphoria alone - socialisation little role in development
- + high scientific validity
  - lab experiment, replicable, objective & measurable results
- low external validity
  - very small & limited sample only male to female transexuals

#### **OTHER RESEARCH**

- <u>boys with gender dysphoria rated more attractive</u> than control children by mothers
- more likely to describe sons as beautiful in infancy
- supports theory children socialised in a more feminine way - caused gender dysphoria
- however, helpful to know more about prenatal hormonal influences - judge whether nurture alone enough to cause gender dysphoria/or also needs biological foundation for it
- incidence of gender dysphoria changed across culture & time
  - gender dysphoria more widely understood = sex realignment surgeries increasing
- doesn't support theory different rates of gender dysphoria do not preclude existence at a higher than diagnosed result
- indicates some societies have more freedom to express gender identity
- quality & quantity of research weakens support for theory difficult to study
  - · longitudinal study of babies needed to consider interacting roles of upbringing & biology
  - impossible to carry out as can't predict gender dysphoria
- + more research can be carried out in future due to advance of brain imaging
  - · unfair to completely dismiss theory currently

#### NATURE/NURTURE

- most convincing evidence = Zhou = purely biological
  - suggests biology is the determining factor in gender dysphoria,
  - nature may have more of a role in the development than explanation suggests
- how important nurture is remains unclear & controversial
  - gender dysphoria caused by parenting = blame can be placed on parents
  - unhelpful stance & suggests something wrong rather than something different with gender dysmorphia
- growing awareness & more treatment prospects for people with gender dysphoria to live as gender they perceive themselves as = much improved
- more **research** needed to evaluate fully, but currently primarily biological in origin

## cognitive approach to gender development: Kohlberg's gender consistency theory

- > children acquire an understanding of the concepts of gender (male and female) in 3 stages, in set order
  - gender identity 2-3yrs
    - recognises they are male/female but knowledge is still fragile
    - may not notice girls grow up into women & boys into men
  - gender stability 3-7yrs
    - realise people retain their gender for a lifetime
    - still tend to rely on superficial signs to determine gender (e.g. hair length)
  - gender consistency 7-12yrs
    - realises gender is permanent whatever happens to physical appearance (men with long hair still male)
    - come to value behaviours & attitudes associated with their gender
      - > identify with adults who possess these qualities
- theory argues that children are active agents in their own gender role socialisation
  - their thoughts about gender determines when & how they show gender role behaviour
- > once children acquire gender consistency, they collect information about their gender role
  - imitate same sex role models follow gender appropriate activities
  - called self socialisation does not depend on others

#### NATURE/NURTURE

- nature: all children will go through stages in order at the set ages, innately
- nurture: information children collect about gender through self socialisation varies according to culture
  - allows for different understandings of gender to exist in different cultures
- what theory attributes to nature may actually also be influenced by nurture
  - supporting evidence implies nurture is key area in the cognitive development of gender

#### SLABY & FREY - identity & consistency test

- observed & questioned children
  - showed picture of a girl & boy & asking "which one are you?" (measures gender identity)
  - "when you grow up, will you be a mummy or a daddy? (measures gender consistency)
  - children go through the 3 stages in order
    - 3 year olds understand none of the concepts
    - 4 year olds understood gender identity
    - 5 years old understood all 3 concepts

- partially supports theory as the children seemed to follow the 3 stages in order
- however, ages of each stage different to the theory
  - suggests theory is correct but age at which each concept develops is different
- + methodology appropriate for age group
  - simple questions & pointing at pictures good way of assessing what children think
  - low demand characteristics high internal validity

#### MARTIN & LITTLE - gender stereotypes

- studied 3-5 year olds
  - children very basic understanding of gender
  - <u>however, strong gender stereotypes about gender</u> <u>appropriate behaviour</u>
- concluded only basic gender understanding needed to affect the child's gender behaviour
- weakens support for the theory:
  - although children behaved appropriately for gender & understood gender stereotypes, children may not need to know they are their own sex to behave appropriately for their gender
- > observation
- + natural reaction higher external validity
- demand characteristics

#### **CROSS CULTURAL STUDIES**

- shown the 3 stages develop in order
- + high external validity

- + overall, good research support for theory
  - cross culture high external validity
  - · good methodology high internal validity
- however, theory is gender biased
  - · Kohlberg's original research androcentric females judged on male standard
  - BAUER role models & earlier gender awareness
    - found boys more willing to imitate male role models from as early as 2 years
    - suggests awareness of gender far earlier than theory suggests
    - findings may be better explained by GENDER SCHEMATHEORY
      - ~ suggests children begin to take on gender appropriate behaviours as soon as aware of own gender (gender identity)
    - may also be explained by **BIOLOGICAL APPROACH** 
      - $\sim$  male hormones lead them to be more interested in masculine activities than feminine activities

## cognitive approach to gender development: gender schema theory

#### schema

- mental framework that helps people to organise and understand information
- allow us to predict what to do in certain situations
- theory argues gender identity develops through both cognitive & social processes
  - unlike Kohlberg, children don't need to know gender is permanent to develop gender schema
- child's gender schema develops around 2/3yrs
  - as soon as the child notices differences between boys & girls and can label the 2 groups reliably
  - having developed schema, child then looks for evidence to support their schema
  - sex related schemas
    - a girl may begin identifying toys which are for "in-group" (doll girl) or "out-group" (train boy)
    - then move onto "own-sex" schema (doll girl = doll for me)
      - > these schemas help children interpret & organise their experience
      - > schemas simplify world for us similar to stereotypes
  - o do not categorise information/make generalisations not able to manage our lives effectively
    - children exposed to endless stream of new information & novel input
      - > processes necessary in order to make sense of the complex world around them
  - gender schema that a child develops appropriate to child's culture
  - gender schemas vary from culture to culture

#### NATURE/NURTURE

- > could be argued role of **environment** (nurture) shapes what goes into child's in/out-group/own sex schemas
  - dependant on the child's culture & upbringing
- however, could also be argued that the need for schemas is innate (nature)
  - children need to be able to simplify & organise information from complex world around them

## MARTIN - gender stereotypes & toy preferences

- showed toys to children aged 4-5
- informed beforehand whether it was a girls/boys toy
  - <u>label 'girl' or 'boy' given at the start consistently</u> <u>affected toy preference</u>
    - girls did not play with boys toys & vice versa
  - supports theory as demonstrates strong effect of gender schemas & stereotypes over behaviour
  - highlights children's need to label/categorise to be simplify subjects as complex as gender

- + methodology appropriate for age group
  - simple questions & pointing at pictures good way of assessing what children think
  - low demand characteristics high internal validity
- children's need to please adults
  - · possible toy choice due to fear of punishment
  - lower internal validity results not due to gender schemas, weakens theory

EISENBURG - sex-role & toy preferences	contradicts theory:
<ul> <li>asked 3-4yr old children what toy's others/they would like</li> </ul>	<ul> <li>shows children may choose toys that appeal to them rather than choosing to fit in with their ideas of gender</li> </ul>
<ul> <li><u>used sex-role oriented thinking to justify answers</u></li> </ul>	appropriateness of the toy/gender schemas
• significantly less of this type of reasoning to	in-group/out-group used, but not own-sex schemas
justify own toy preferences	+ methodology appropriate for age group
<ul> <li>after a session of free play asked again</li> </ul>	<ul> <li>using toy choice to assess gender schemas</li> </ul>
<ul> <li><u>did not justify toy choices by referring to gender</u></li> </ul>	<ul> <li>low demand characteristics - internal validity</li> </ul>
<ul> <li>justified choices referring to toys themselves &amp;</li> </ul>	- asked about toy 2x
what they could do	<ul> <li>children could guess intention of study</li> </ul>
	<ul> <li>lowers internal validity</li> </ul>

- + overall, methodology of research increases quality of research
  - lab studies high control
  - appropriate way to assess children
- + theory offers good insight to why children cling to gender stereotypes
  - need to simplify/process new information
  - pay minimal attention to information that contradicts schemas/may distort current knowledge
  - exist despite best efforts of some parents
    - however, inconsistency of results weakens theory
  - · low reliability & validity, both internally & externally
    - low control over certain issues (EVs) weakens support
      - child's need to please
      - results due to social values

### SOCIAL SENSITIVITY

- theory excuses stereotypes of children for their 'innate need for schemas'
  - removes responsibility from parents & blame on children
- if stereotypes are not challenged, could stay in adulthood
  - may lead to discrimination

#### social influences on gender: parent's & school's influence on gender roles behavioural approach socialising agents parents & schools influence learning of gender • exert influence on gender role behaviour of role behaviours through conditioning children - operant conditioning - consequences of - informal - parents, friends, siblings behaviour determine whether it will be repeated - formal - schools, institutions gender appropriate behaviour - positively reinforced = repeated in future PARENTS HAGAN - risk-taking behaviour shows difference in way parents treat children according to gender, which may influence behaviour & gender roles examined how parents influence sex differences in young children's risk taking behaviour + observation - high internal validity ▶ 80 3-4 year old children climbed across a 5ft cat good assessment of natural parent reactions to walk & 3ft high beam under parent's supervision children's risk taking behaviour both activities posed potential threat to safety - unnatural situation - demand characteristics without proper parental monitoring low external validity - can't generalise • fathers monitored daughters more than sons - no follow up o mothers monitored sons & daughters similarly does not show long term impact on child's other research also shows father's behaviour gender as a result of being treated differently discriminates daughters more than mother's FRIEDMAN - mother's attitudes/child's • more counter-stereotypical views to daughters maybe due to increased likelihood of her experiencing discrimination stereotypes due to gender > 74 mother-child pairs read & discussed gender related story shows social influences on gender no long term effect - content analysis of mother's talk carried out mother's gender attitudes predicted chid's gender stereotypes in younger but not older • mothers with gender-equal attitudes used more counter-stereotypical comments + observation - high internal validity mothers used more counter-stereotypical measuring natural conversations between comments with daughters than sons mother & child • studied how gender attitudes influenced mothers gender attitudes predicted gender stereotyping in younger children (3-4) but not children's stereotyping in later childhood older children (6-7) - no follow up shows parent's attitudes to gender roles influences way does not investigate long term effect child is brought up around subject of gender **SCHOOLS** EVANS & DAVIES - school books shows although gender is represented roughly equally in books, gender roles of the characters are different Iooked at books published in 1997 america for children in 1st, 3rd & 5th grade not so much gender discrimination, but exaggerating gender stereotypes carried out content analysis - content analysis • roughly equivalent number of male/female characters (54% male 46% female) does not show effect books have on children's gender behaviour • however, characters represented differently: risk of cherry picking/researcher bias - male = more aggressive & competitive female = more passive/emotionally expressive

#### **BIGLER - gender/colour groups**

- field experiment
- teachers asked to use gender to divide children into groups (e.g. boys & girls)
- control classes divided into colour groups (e.g. red & green)
  - <u>4 weeks later children in gender groups showed</u> <u>more gender stereotypical views compared to</u> <u>control group & own pre-test scores</u>
- shows subjecting children to gender divide influences cognitions about gender through stereotypes
- + high internal validity
  - field experiment natural environment, low demand characteristics
- no follow up
  - does not investigate long term effect
- + overall, increased internal validity can draw significant conclusions about role of social influences
- however, more longitudinal research required to investigate further
  - Friedman results imply no longer influences after 7+ years
- gender schemas could be altered by social influences
  - Bigler influence caused by stereotypes of being in gender groups, affecting schemas more
- social learning theory learnt certain behaviours/stereotypes from role models & repeated it
  - Evan's & Davies influenced to replicate gender-stereotypical behaviour from role models in books

#### NATURE/NURTURE

- > assessing importance of social influences refers to role of **nurture** in gender (of parents & schools)
- however, social influence very hard to test scientifically
  - can't isolate nature/nurture influence to see which has more of an effect
  - can't rule out significance of **biological sex** on gender
- biosocial approach may explain gender influences better
  - biology is foundation on which social factors are built
  - o incorporates both factors to have an influence on gender development

## social influences on gender: cultural influence on gender roles

- cross-cultural research indicates whether or not patterns of behaviour are universal
- > **consistent** across cultures = biologically determined/**nature** biggest influence
- > different across cultures = behaviour learnt/nurture biggest influence

#### MEAD - 3 tribes

- claimed traits we call masculine & feminine are completely unrelated to biological sex
- studied 3 New Guinea tribes:
  - the Arapesh
    - both sexes showed traditional feminine traits
    - described as gentle, loving & cooperative
    - boys & girls both reared to show these qualities - stereotypically feminine
  - the Mundugmor ex cannibals
    - both sexes showed traditional masculine traits
    - described as fierce, self-centred & arrogant, continually quarrelled
    - both sexes detested pregnancy & child-rearing
  - <u>the Tchambuli</u>
    - reversed gender-roles to the west
    - females took care of trading & food gathering
      - > girls encouraged to take interest in tribaleconomic affairs
    - males considered sentimental, emotional & incapable of making serious decisions
      - > spent most of day in groups gossiping & preening selves

## WILLIAMS & BEST - gender stereotypes across cultures

- explored gender stereotypes in 30 different national cultures
  - men more dominant, aggressive & independent
  - women more nurturing, respectful & interested in bonding
  - suggests gender role stereotypes of females being more emotionally expressive than males very widespread

- suggests culture influences all aspects of gender role (which are socially constructed) nurture larger influence
- observer bias
  - over-emphasised role of nurture due to own beliefs - not objective
- cultural bias
  - imposed beliefs of own culture on way she interpreted other culture
- observation
  - no control over EVs biological factors

- supports idea of universals in gender characteristics in different cultures - nature larger influence
- + large & varied sample
  - high ecological & external validity generalisable
- no control over EVs
  - differences could be due to biology

#### 110 NON-INDUSTRIALISED SOCIETIES

- <u>75% more pressure on girls to be nurturing</u>
- <u>55% considered responsibility more important in</u> <u>girls</u>
- 32% showed obedience far more stressed in girls
- 79% more pressure on boys to achieve high
- 77% regarded self reliance more important in boys
- suggests gender roles heavily influenced by nature parental investment
- bowever, cultural differences show role of nurture
  - gender roles innate/universal but slight variation shows influence of culture - interaction of nature & nurture
- + large & varied sample
  - high ecological/external validity generalisable
- no findings 100%
  - can't be purely nature must be EVs
  - might expect pressure to achieve greater in boys due to child rearing - only found in 79%
- + overall, high external validity of research helps to give insight on effect of culture on gender
- however, inconsistency of results reduces reliability
  - · conflicting evidence weakens support for either nature or nurture having more influence
- observer/cultural bias
  - unfair to base judgements of other cultures from own experiences & culture
  - manipulating findings to suit own theories

#### NATURE/NURTURE

- research shows role of nature & nurture on gender roles
  - Mead gender roles socially constructed as differences across cultures nurture
  - · Williams & Best universal ideas of gender roles innate reaction nature
  - Societies gender roles innate/universal but slight variation shows influence of culture both
- however, does not explain why nature/nurture had more effect on each situation

#### **BIOSOCIAL APPROACH**

- > this theory may help to explain influence of both nature & nurture in results
- focuses on the interaction between biological & social factors
  - **biology = foundation** on which social factors built
  - emphasises social factors as cause for gender differences
- > gender is **flexible** so gender roles may **vary** across **time & culture**