

Il sesso delle donne

Università di Roma



Emmanuele A. Jannini

ENDOSEX



siams
Società Italiana di Andrologia
e Medicina della Sessualità



Arvicola della prateria

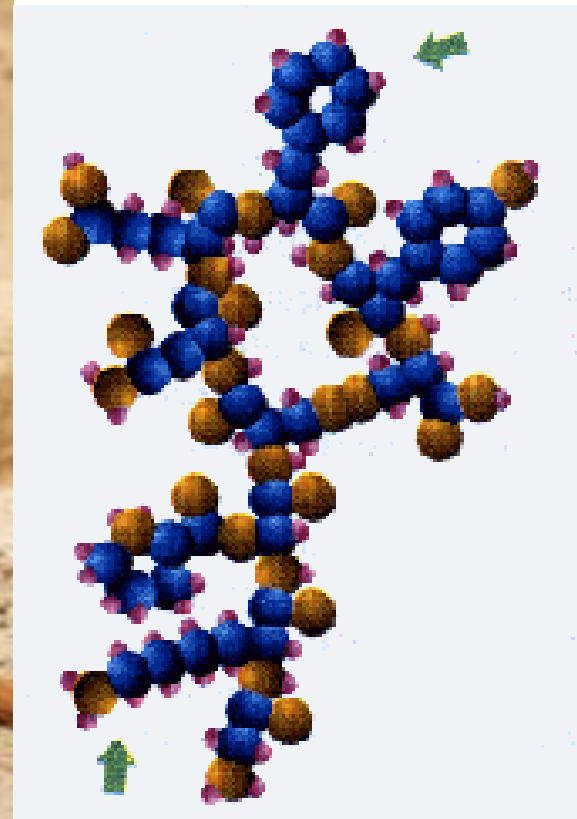
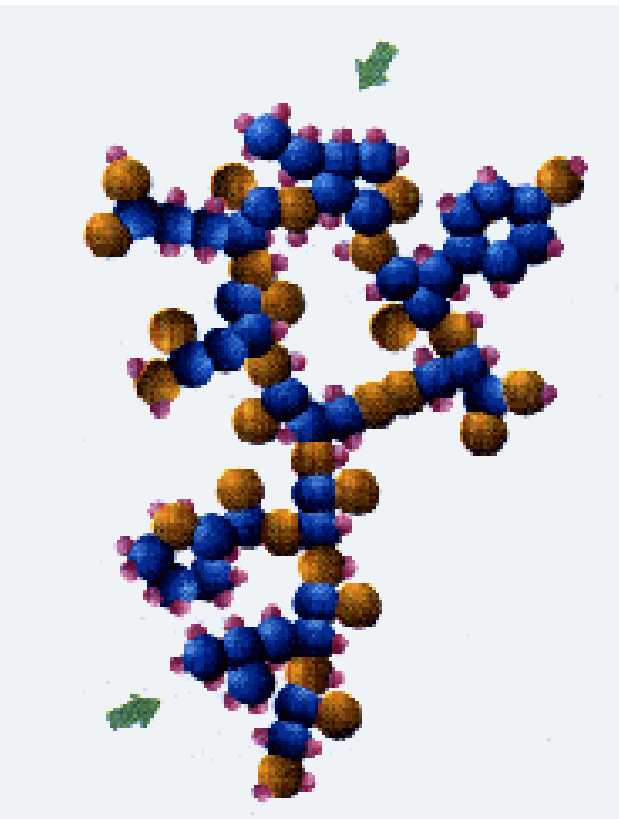




TABLE 1. Comparison of social behavior of the prairie vole and the montane vole

Behavior	Prairie vole	Montane vole
Mating system	Monogamous	Promiscuous
Parental care	Biparental	Maternal
Partner preference	High	Low
'Selective' aggression	High	Low
Social contact	High	Low



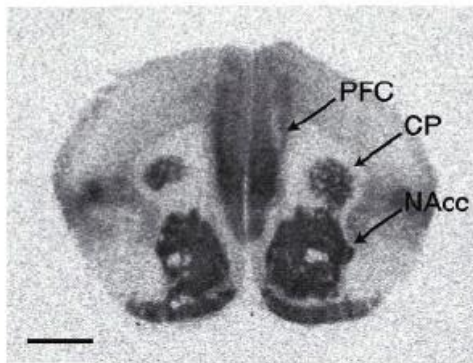
Variation in Oxytocin Receptor Density in the Nucleus Accumbens Has Differential Effects on Affiliative Behaviors in Monogamous and Polygamous Voles

Heather E. Ross,^{1,2} Sara M. Freeman,^{1,2} Lauren L. Spiegel,^{1,2} Xianghui Ren,^{4,5} Ernest F. Terwilliger,⁴ and Larry J. Young^{1,2,3}

The Journal of Neuroscience, February 4, 2009 • 29(5):1312–1318

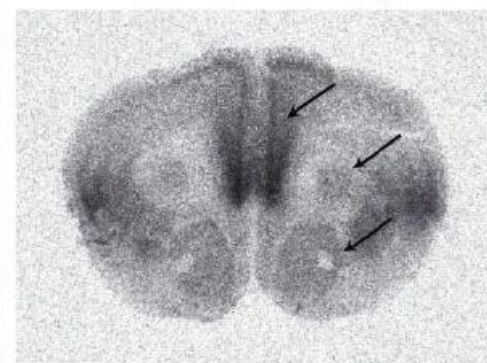
OTR

Monogamo VOLE

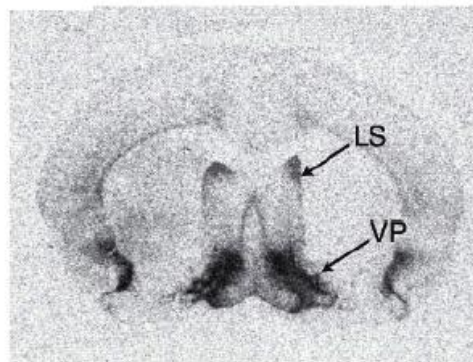


OTR

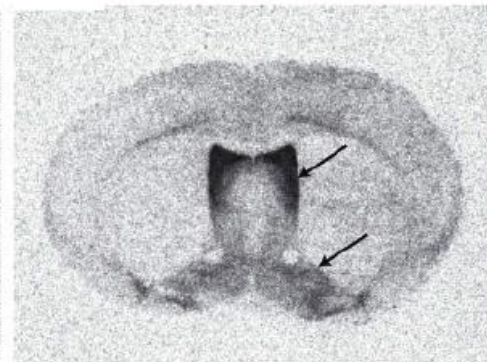
Poligamo VOLE



V1a



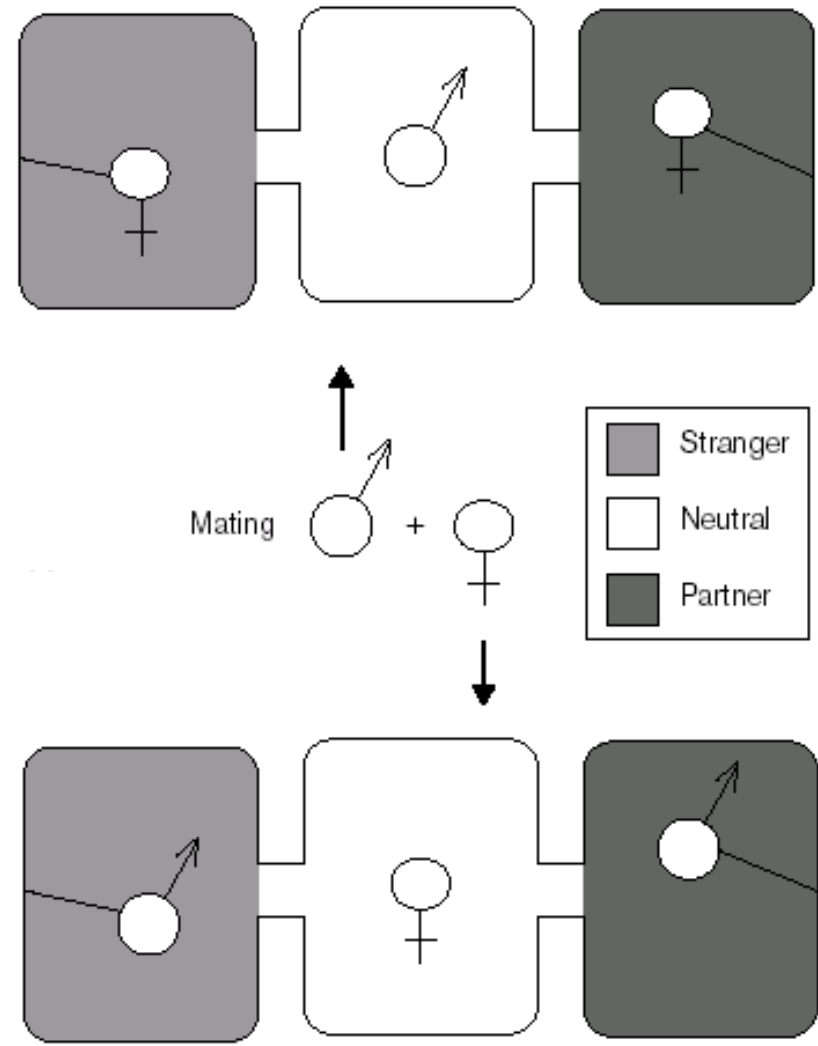
V1a



Neuropeptides and the evolution of social behavior

Thomas R Insel* and Larry J Young†

Curr Opin Neurobiol. 2000 Dec;10(6):784-9.

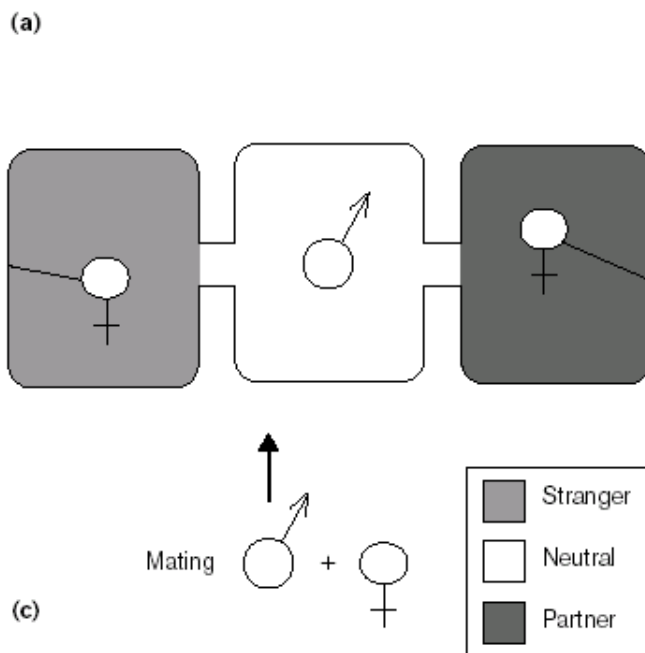


Neuropeptides and the evolution of social behavior

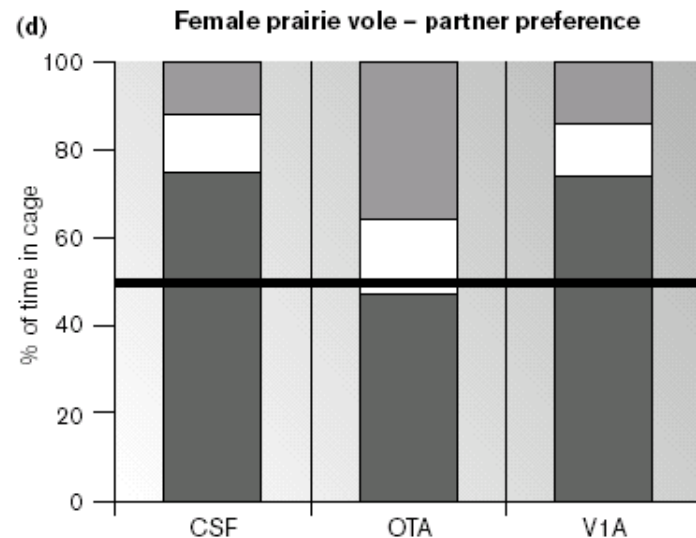
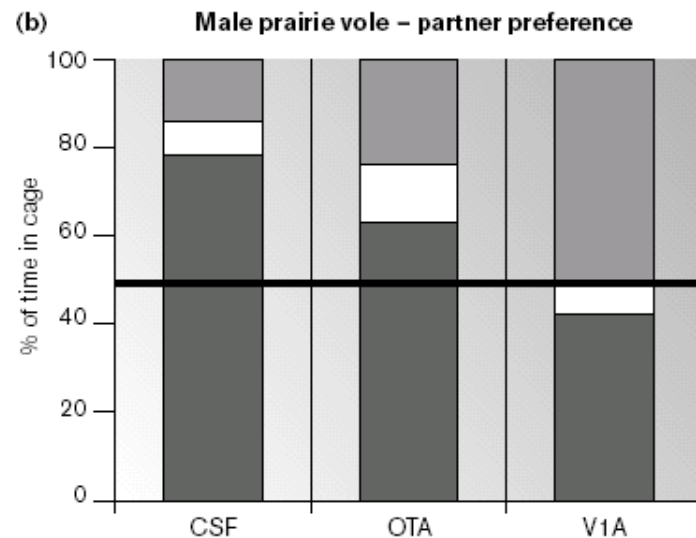
Thomas R Insel* and Larry J Young†

Curr Opin Neurobiol. 2000 Dec;10(6):784-9.

Il blocco della VP
aumenta
l'esplorazione
maschile



Il blocco dell'OT
aumenta
l'esplorazione
femminile



CTRL

-ANTAGONISTI-

Cosa lei vuole da lui? Le strategie di seduzione del maschio



Don Juan. Overture

Ms. 1548

29953

Handwritten musical score on aged paper, featuring multiple staves with notes, rests, and dynamic markings. The title "Don Juan. Overture" is written at the top. A library stamp with the number "29953" is visible at the bottom.

IL
DISSOLUTO
 PUNITO. 532/4
 O SIA 66 Cal
IL D. GIOVANNI,

DRAMMA GIOCO SO
 IN DUE ATTI.

DA RAPPRESENTARSI
 NEL TEATRO DI PRAGA L'ANNO 1787.

Engraving of a figure, likely a monarch or noble, wearing a crown and holding a scepter, positioned at the bottom of the title page.

MÉMOIRES
DE
J. CASANOVA
DE SEINGALT
ÉCRITS PAR LUI-MÊME.

De l'édition orig. qui est au n. 10.

ÉDITION ORIGINALE.

TOME PREMIER



LEVSIK, F. A. HEDCKHUK
PARIS, PONTREU et COMP.
PALAIS NATIONAL, QUAI DE BOURBON.

1826.

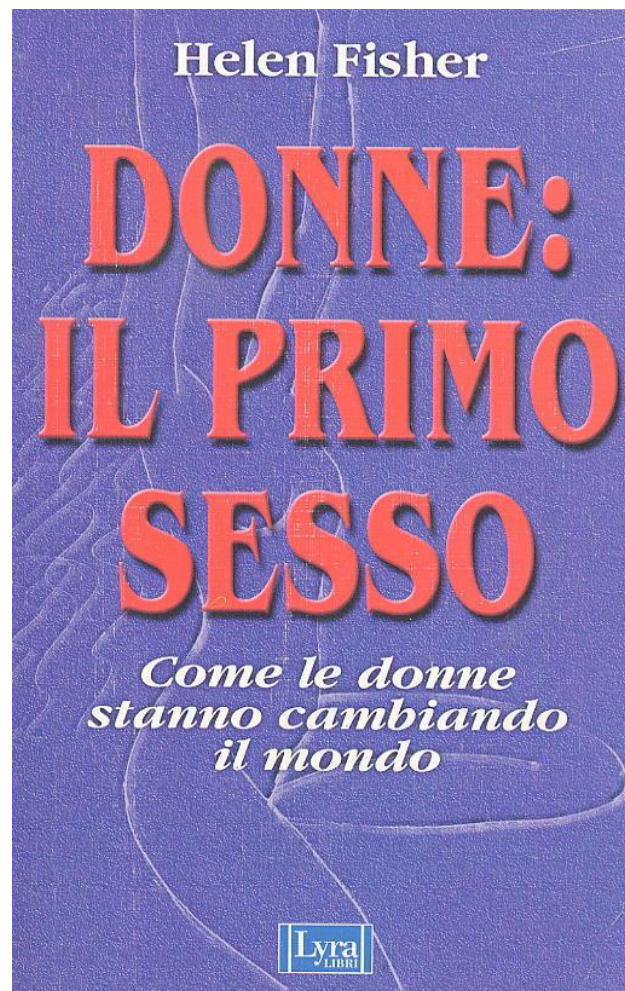
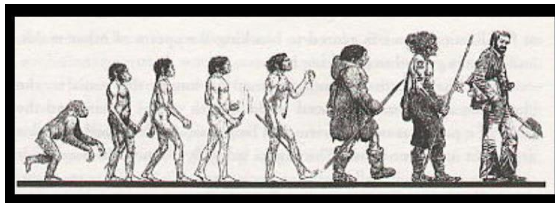
Chapitre IX

118

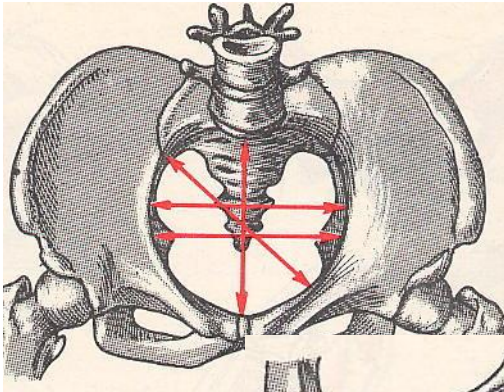
Je mis elle chez elle le lendemain de grand matin. Ce
car étant pressant je l'ai ~~trouvé~~ ^{trouvé} recueillir, et je l'ai infor-
mée exactement de tout. Elle me dit qu'il n'y avait pas
de balancier, qu'il fallait même au fait de tout le traitement
criminel, et qu'elle même vint lui parler. Elle lui écrivit d'
abord qu'elle vint lui parler d'affaire de conséquence à trois
heures de l'après diner, et il lui répondit qu'il l'attendait.
Elle y fut. L'informa de tout, ^{elle} lui dit qu'elle étoit prête
à accoucher, et qu'après ses couches, elle retourneroit chez
sa mère sans cependant lui confier qu'elle avoit accouché.
Elle m'assura que je n'avois plus rien à craindre; mais
que le procès alloit toujours, je serois cité en justice le lendemain
de main. Elle me conseilla d'aller voir le greffier, et de trouver
quelque proteste de lui donner de l'argent.
Je fut cité; et j'ai comparu. J'ai un M. de Bastina ^{resident}
procurator. A la fin de la séance il me dit qu'il étoit prêt
de me déclarer d'ajournement personnel. Il m'avoit dit que
je ne pouvois pas m'absenter de Paris, ni me marier pen-
dant mon ajournement, car tout procès criminel portoit inter-
diction de tout contrat civil. A mon interrogatoire j'ai con-
venu que je mis elle au bal en domino noir la nuit qui on
nommoit au procès; mais j'ai vu tout le reste. Par rapport
à l'art. XCV j'ai dit que ni moi, ni personne de sa famille n'ont
eu jamais gorge.

Je n'ai eu craindre en qualité d'étranger, que l'univers ne
me fit déclarer de pris de corps, me lançant comme
prêt à m'enfuir; j'ai vu à proteste pour aller faire
une visite au greffier, et de jurer entre ses mains sans exigence
quittance trois cent louis comme caution des frais du procès,
s'il arrivoit que ce fut à moi à les payer. Il me conseilla de

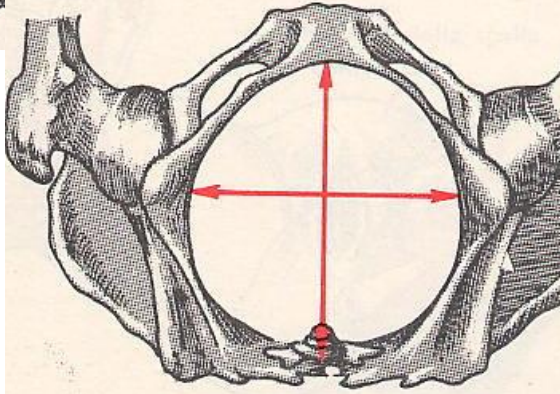
- La sessualità femminile si è evoluta in senso **selettivo**.
- Questa è una conseguenza della postura eretta.
- Quindi il problema di una donna è scegliere il maschio “giusto”.



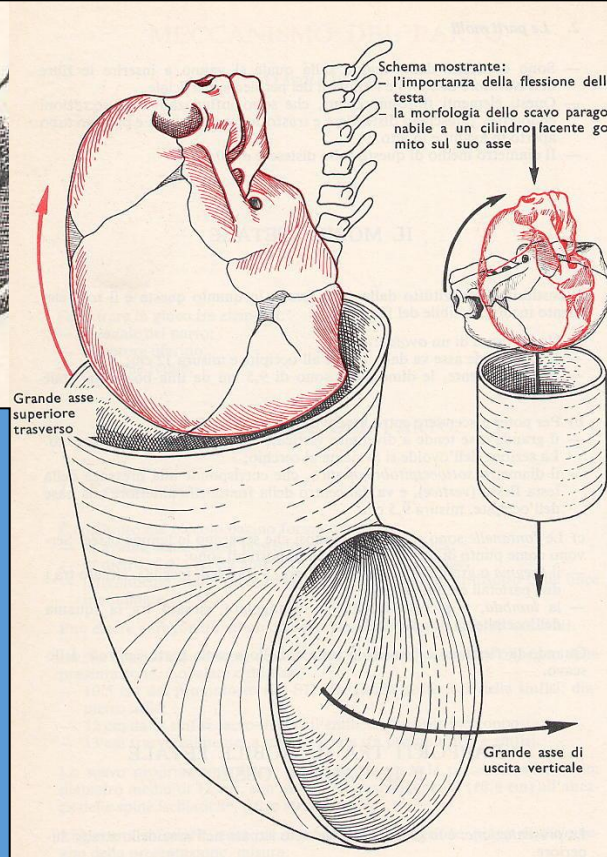
Conseguenze della postura eretta



Gli umani partoriscono cuccioli estremamente immaturi



La gravidanza, il parto e il puerperio sono un rischio



Due strategie riproduttive femminili

DONNE PRE

Scegliere basandosi sulle qualità **pre**riproduttive:

- la resistenza alle malattie e all'attacco dei parassiti
- la bellezza
- il vigore e la prestanza
- l'intelligenza
- il senso dell'umorismo
- come qualità genetiche da trasmettere ai propri figli
- anche a costo di compromettere la fedeltà e la sicurezza

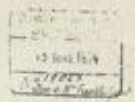
DONNE POST

Scegliere sulla capacità di contributo all'investimento **post**riproduttivo:

- le capacità di provvedere ai piccoli
- la generosità
- le risorse economiche
- il potere del proprio partner
- anche a costo di compromettere bellezza forma fisica e sensualità



— Madame Bovary. —
Louis Roussellet.
Premier partie



une heure et demie venant de passer à l'école de village
grand le professeur eût dit dans l'état, mais d'un nous can
habitué en bourgeois et d'un garçon de classe qui portait un
grand papillon. Les qui dormaient, se réveillèrent
~~à la suite de l'arrivée de l'inspecteur, et se mirent à parler~~
~~de la table, et de la table, et de la table, et de la table~~
qu'on se le rappelle, et même de leur commune sur pied
dans son travail.

Le professeur nous fit signe de nous rasseoir et en
tournant vers la droite d'étude, il dit "Bogus", qui dit : "Le
à deux ans" assis un être qui se avec le commandement il
entra en acquisition, à son travail de sa conduite sur
restitution, il parlait dans les yeux, en l'appelle par sa

est dans l'usage, ~~et même les~~ ~~de la~~
porte ~~entièrement~~, à bien que ~~le~~ ~~de la~~
~~proprement~~ ~~le nous can~~ était un garçon de la
campagne, d'une quinzaine d'années environ, et plus
haut détaché qu'aucun des autres. Il avait les cheveux
longs ~~sur le front~~, comme un chapeau de village
l'air raisonnable de ~~est~~ ~~embarrassé~~, ~~les longs yeux~~

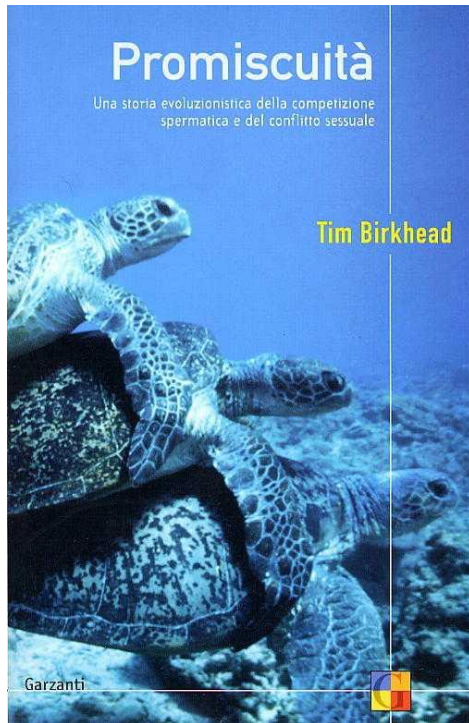
finis qui ~~se le~~ ~~est~~ ~~est~~
~~de la~~ ~~de la~~ ~~de la~~ ~~de la~~
de la ~~de la~~ ~~de la~~ ~~de la~~ ~~de la~~
ne fut pas large des épaules, son habit-vent de
drap vert, à boutons noirs, devant le grand avec
entouré par

Dove trovare un partner che seduca con qualità' **PRE** e **POST** riproduttive?





Strategie di seduzione



- a) La Promessa (la coda del pavone)
- b) Il “figlio sexy”
- c) Il “figlio sano”
- d) Il Dono nuziale (la mantide religiosa)
- e) L’erezione

a) La promessa

- La necessità di cure parentali obbliga le femmine di molte specie a credere a promesse di sostentamento che precedono la copula.
- Queste promesse sono in genere esibite sotto forma di surplus in atto o in potenza.



Il surplus in atto

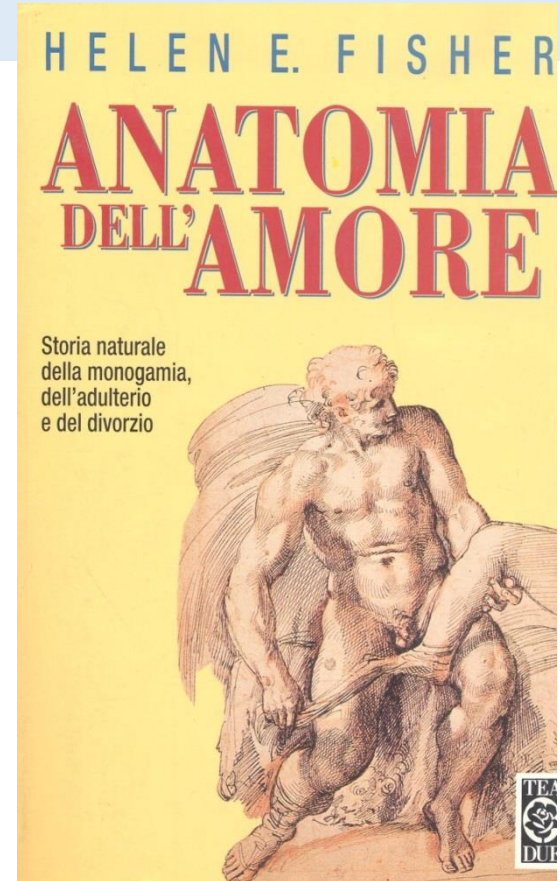


- Il surplus attuale è costituito, nella nostra specie, dalla ricchezza inutile:
 - Diamanti
 - Automobili sportive
 - Potere
- Il surplus attuale è più utilizzato dai maschi maturi.



Prove scientifiche del surplus in atto

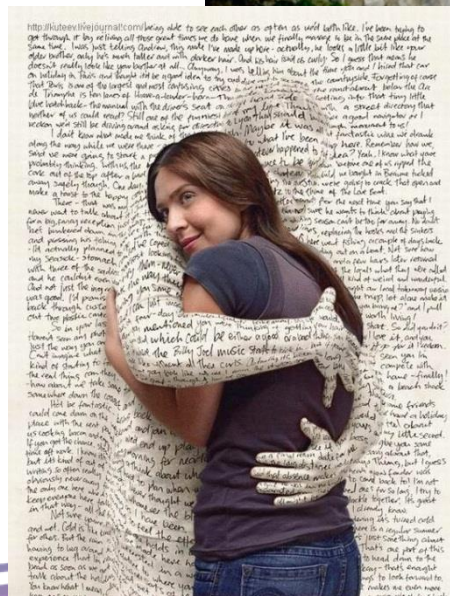
Helen Fisher dimostra, consultando gli **annunci matrimoniali**, che l'indicazione più frequente in quelli maschili è relativa al lavoro e al censo.



Il surplus potenziale è costituito da indicatori della possibilità di avere surplus in futuro:

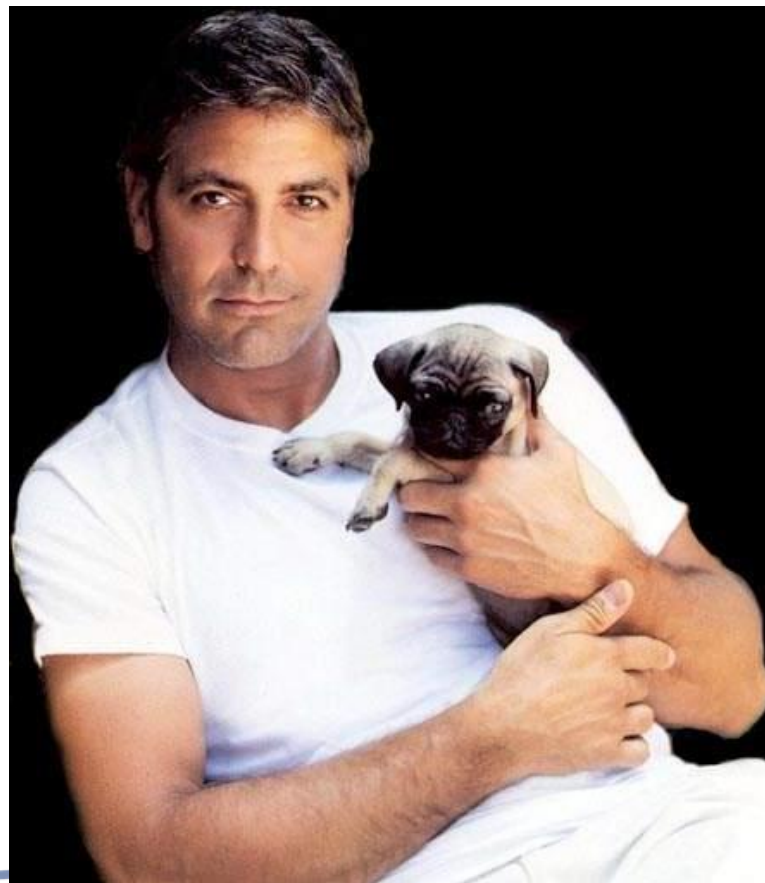
- Coraggio
- Intelligenza
- Cultura
- Intraprendenza
- Paternità-fedeltà
- Il surplus potenziale è utilizzato dai maschi giovani.

Il surplus in potenza



b) Il figlio sexy

Il figlio di un padre attraente avrà maggiori possibilità di accoppiarsi.

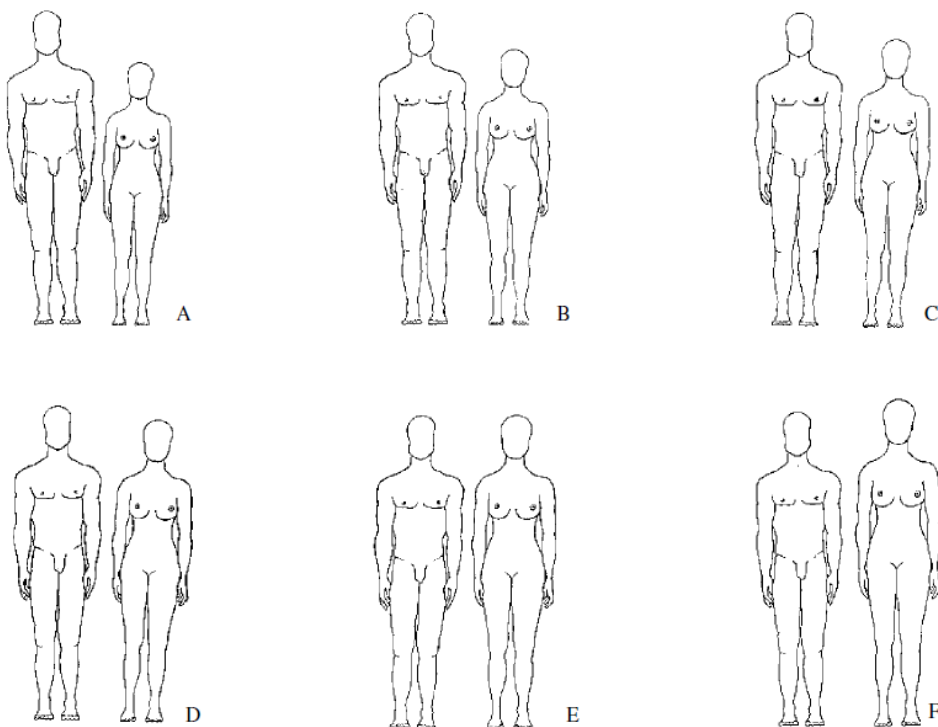


Variable preferences for sexual dimorphism in height as a strategy for increasing the pool of potential partners in humans

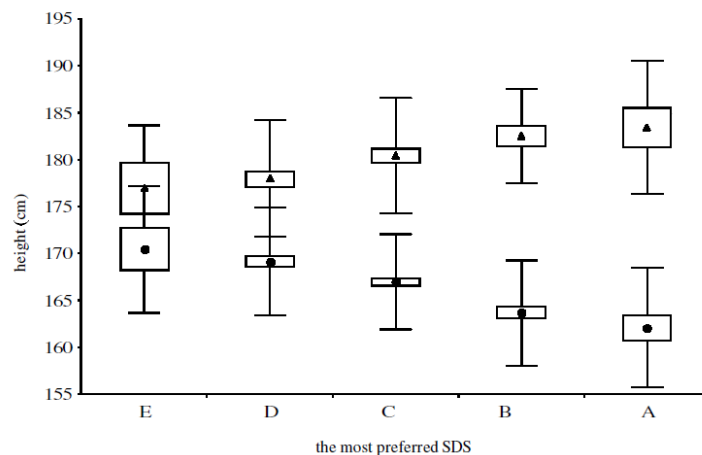
Bogusław Pawłowski

Department of Anthropology, University of Wrocław, ulica Kuźnica 35, Wrocław 50-138, Poland

Proc. R. Soc. Lond. B (2003) 270, 709–712



N=363



Variable preferences for sexual dimorphism in height as a strategy for increasing the pool of potential partners in humans

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N=363

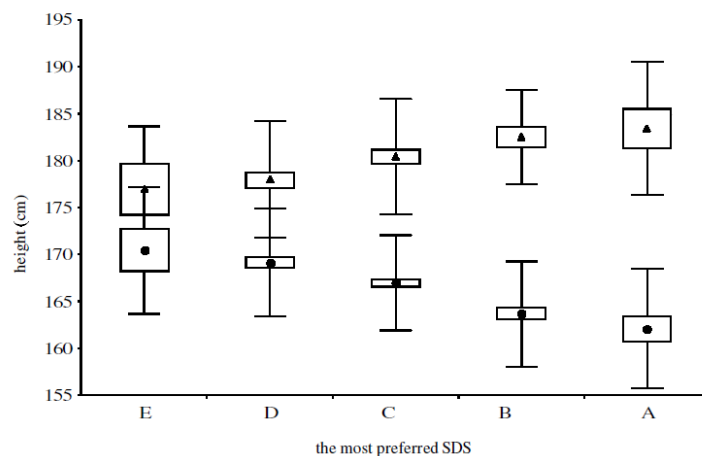


Table 1. Means (\pm SE) of the sperm parameters, and the principal components analysis of their variation.

	Mean (\pm SE)	PC1	PC2	PC3
Eigenvalue		3.023	2.556	1.010
% variance explained		43.2	36.5	14.4
VAP μ m/s	54.6 \pm 1.6	0.506	0.286	0.065
VSL μ m/s	46.8 \pm 1.4	0.437	0.387	0.156
VCL μ m/s	75.4 \pm 2.2	0.548	0.101	-0.231
ALH μ m	4.7 \pm 0.1	0.374	-0.300	0.376
BCF beats/s	14.1 \pm 0.2	-0.047	0.382	-0.735
STR %	83.5 \pm 0.7	-0.257	0.510	0.239
LIN %	62.6 \pm 1.1	-0.211	0.512	0.422

VAP, average path velocity; VSL, straight line velocity; VCL, curvilinear velocity; ALH, lateral amplitude of sperm head; BCF, cross beat frequency; STR, straightness; LIN, linearity.

Low Pitched Voices Are Perceived as Masculine and Attractive but Do They Predict Semen Quality in Men?

Leigh W. Simmons^{1,2*}, Marianne Peters^{1,2}, Gillian Rhodes²

¹ Centre for Evolutionary Biology, School of Animal Biology (M092), University of Western Australia, Crawley, Western Australia, Australia, ² ARC Centre of Excellence in Cognition and its Disorders, School of Psychology, University of Western Australia, Crawley, Western Australia, Australia



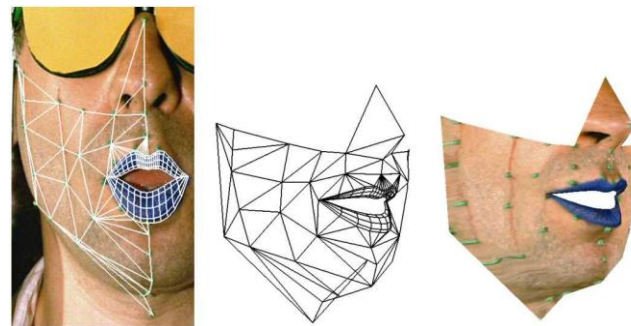
c) Il figlio sano



- L'assenza di segni visibili di malattie e deformità è considerata attraente.
- Gli indicatori “onesti” di “**buoni geni**”, salute riproduttiva e generale sono una garanzia che il figlio sarò in grado di sopravvivere e di riprodursi.

Come provare queste teorie?

- La tecnica del morphing permette di mutare la mascolinità e la femminilità di un volto maschile “sintetico”.



27 August 1998

International weekly journal of science

nature

1998
NATURE
of the Year



Feminine charms

Macroscopic chaos A microscopic origin

Earth's magnetic field The intensity average

Leptin Starvation and immune dysfunction

New on the market
Biochemicals & reagents

Gli studi di Perrett



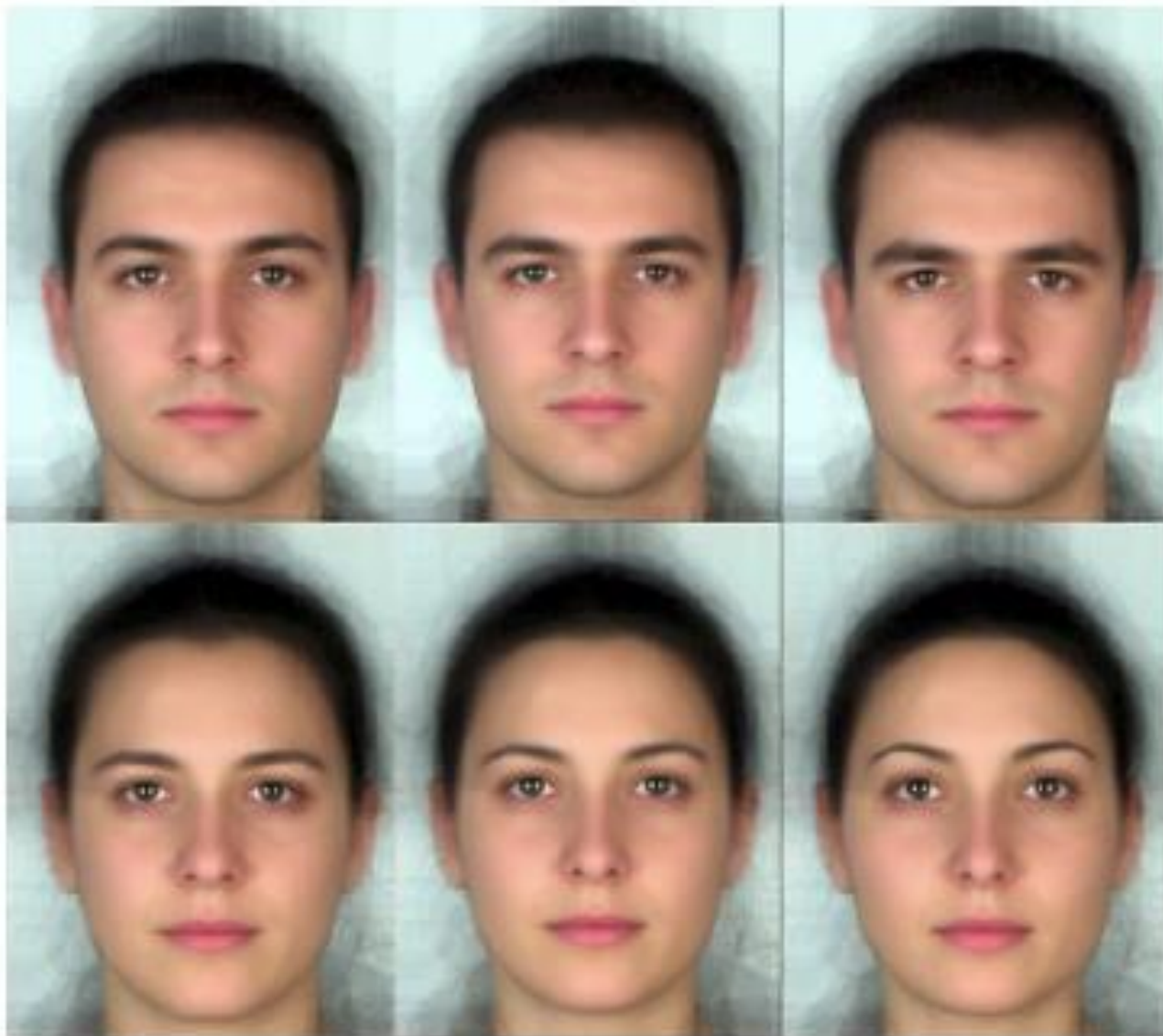
- Le donne preferiscono un volto femminilizzato (**Promessa**).
- Tale preferenza si inverte durante l'ovulazione (**Figlio sano**).



- Perrett et al (1994) Facial shape and judgements of female attractiveness. Nature 368:239-242.
- Perrett et al (1998) Effects of sexual dimorphism on facial attractiveness. Nature 394:884-887.



Stimoli

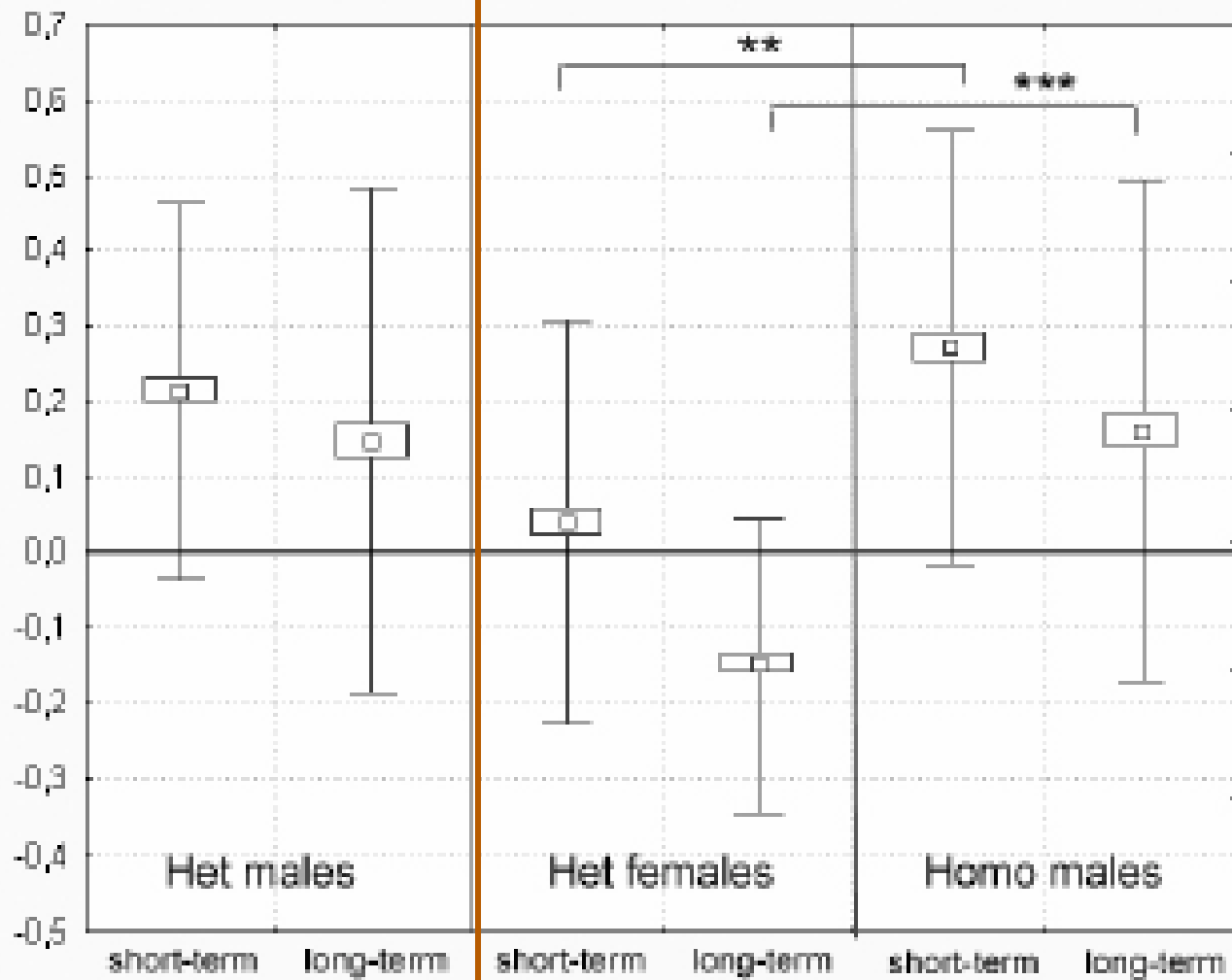


Dimorphism reduced

Average

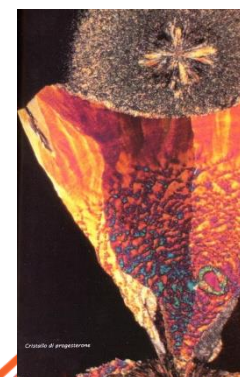
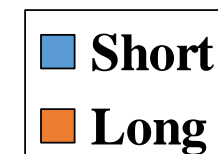
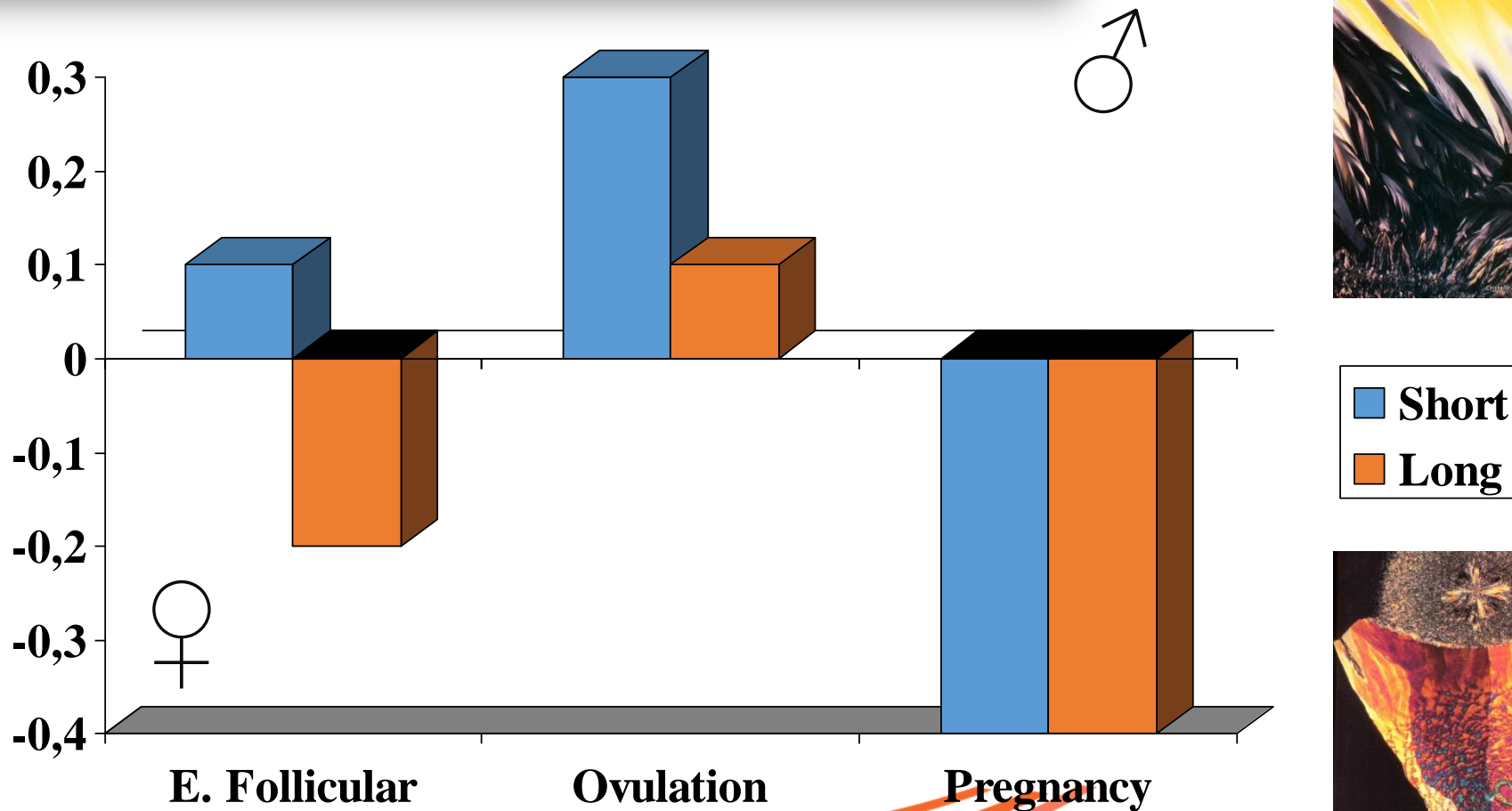
Dimorphism enhanced





Pregnant Women's Preferences for Men's Faces Differ Significantly from Nonpregnant Women

Erika Limoncin, PsyD, PhD,^{*1} Giacomo Ciocca, PsyD, PhD,^{*1} Giovanni Luca Gravina, MD,^{*}
Eleonora Carosa, MD, PhD,^{*} Daniele Mollaioli, PsyD,^{*} Alessandro Cellerino, PhD,[†]
Andrea Mennucci, MD,[†] Stefania Di Sante, MD,[‡] Andrea Lenzi, MD,[‡] and Emmanuele A. Jannini, MD^{*§}



d) Il dono nuziale



- Alcuni animali devono usare la strategia del **dono nuziale** per potersi accoppiare.



d) Il dono nuziale



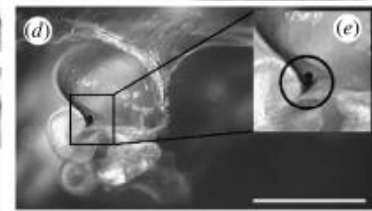
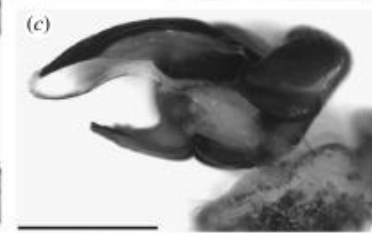
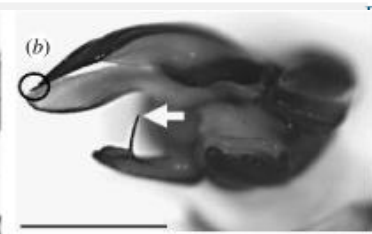
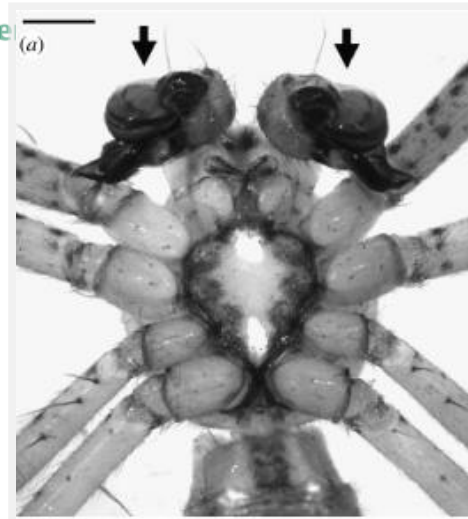
- Alcuni animali devono usare la strategia del **dono nuziale** per potersi accoppiare.
- Quando la disponibilità femminile è rara, e il cibo scarseggia, il dono può essere se stessi.
- Ma dov'è il vantaggio genetico?



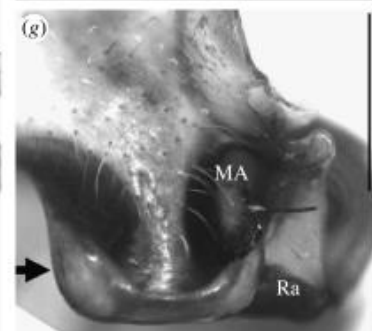
Argiope bruennichi

ambiare per mantene

maschio



femmina



↑ copula

A non-sperm transferring genital trait under sexual selection: an experimental approach

Stefan H. Nessler^{1,*}, Gabriele Uhl² and Jutta M. Schneider¹



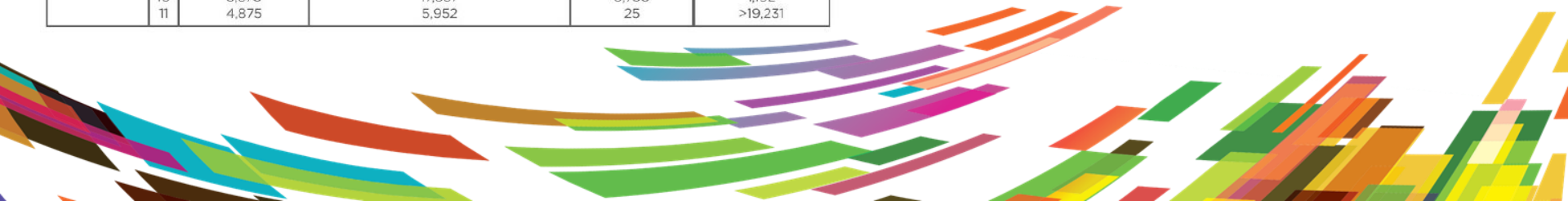
e) L'erezione



AVANAFIL: THE SECOND-GENERATION TREATMENT OF ERECTILE DYSFUNCTION

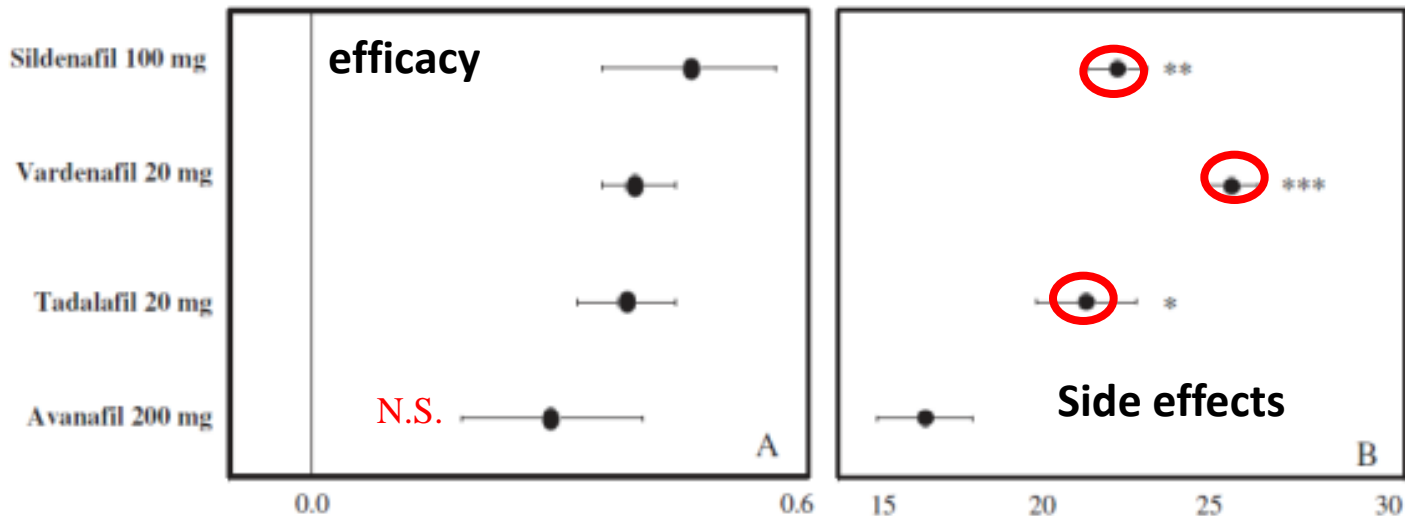
*Giovanni Corona,¹ Mario Maggi,² Emmanuele A. Jannini^{2,3}

	Sildenafil ^{50,56-68}	Vardenafil ^{25,46,69-74}	Vardenafil ⁷⁵⁻⁷⁷	Tadalafil ^{35,59-65}	Avanafil ⁵¹⁻⁵⁸
Brand name	Viagra [®]	Levitra [®]		Cialis [®]	Spedra [®]
Generation	First-generation				Second-generation
Galenic form	Film-coated tablets	Film-coated tablets	Orodispersible tablets	Film-coated tablets	Tablets
Year of European market authorisation	1998	2003	2010	2003	2013
Recommended dose	50 mg (may be increased to 100 mg or decreased to 25 mg based on efficacy and tolerability)	10 mg (may be increased to 20 mg or decreased to 5 mg based on efficacy and tolerability)		10-20 mg (also available as doses of 2.5 and 5 mg for once-daily dosing)	100 mg (may be increased to 200 mg or decreased to 50 mg based on efficacy and tolerability)
Maximum recommended dose	100 mg	20 mg		20 mg	200 mg
Onset of action	60 minutes	25-60 minutes	<30 minutes	30 minutes	Approximately 15-30 minutes
Onset of action delayed due to fatty meal or alcohol consumption?	Yes	Yes	No	No	Yes
Duration of action	About 4 hours Some reports of durations of action for up to 12 hours	About 4 hours		Up to 36 hours	>6 hours in some patients
PDE selectivity (fold-difference)	1 2 3 4 5 6 7 8 9 10 11	375 39,375 16,250 3,125 1 16 13,750 >62,500 2,250 3,375 4,875	1,012 273,810 26,190 14,286 1 21 17,857 1,000,000 16,667 17,857 5,952	10,500 >25,000 >25,000 14,750 1 550 >25,000 >25,000 >25,000 8,750 25	10,192 9,808 >19,231 1,096 1 121 5,192 2,308 >19,231 1,192 >19,231

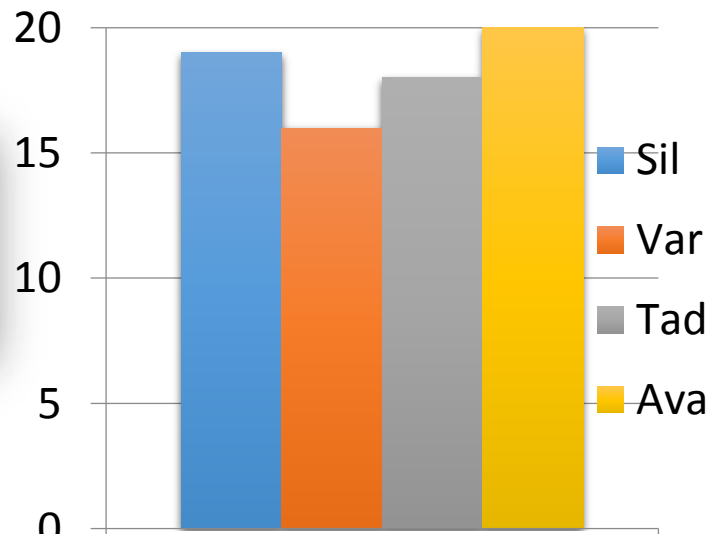


Metanalyzing data on side effects

About **2000** published patients treated with Avanafil or Placebo



EFFICACY/SAFETY RATIO



EXPERT OPINION ON DRUG SAFETY, 2016
<http://dx.doi.org/10.1517/14740338.2016.1130126>



DRUG SAFETY EVALUATION

The safety and efficacy of Avanafil, a new 2nd generation PDE5i: comprehensive review and meta-analysis

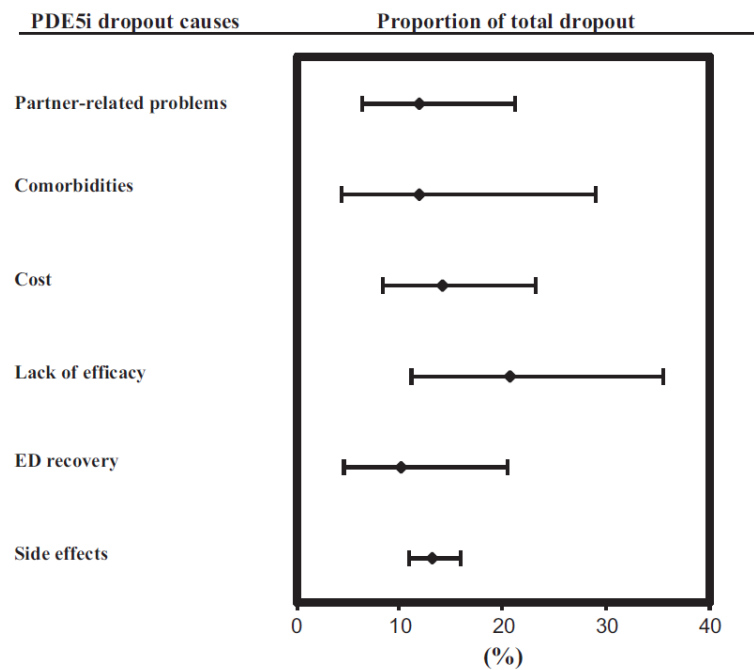
Giovanni Corona^a, Giulia Rastrelli^b, Andrea Burri^c, Emmanuele A. Jannini^d and M Maggi^b

First-generation phosphodiesterase type 5 inhibitors dropout: a comprehensive review and meta-analysis

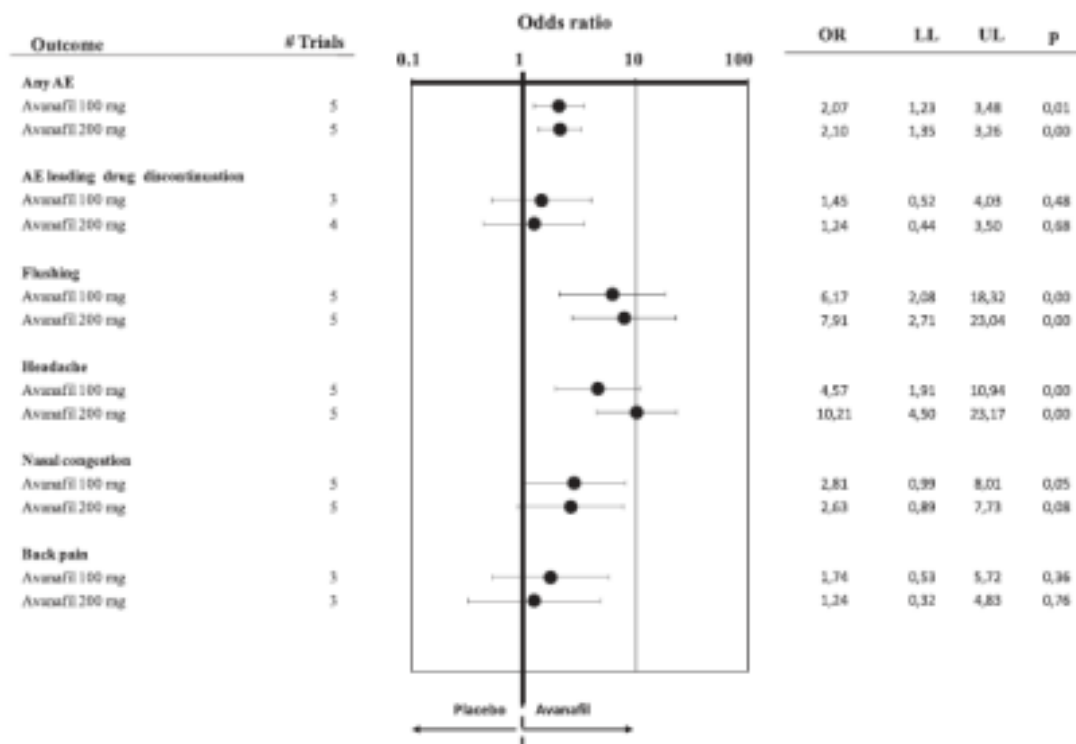
¹G. Corona, ²G. Rastrelli, ³A. Burri, ⁴E. Serra, ⁵D. Gianfrilli, ⁶E. Mannucci, ⁷E. A. Jannini and ²M. Maggi

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Andrology, 1-9



Il dropout è un fenomeno frequente e multifattoriale



No differences between 100 and 200 mg of avanafil and placebo for the incidence severe adverse events is observed:
 OR=1.99 [.67;5.93] and 1.7 [.54;5.31] for 100 and 200 mg over placebo, respectively, both p=NS

EXPERT OPINION ON DRUG SAFETY, 2016
<http://dx.doi.org/10.1517/14740338.2016.1130126>

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DRUG SAFETY EVALUATION

The safety and efficacy of Avanafil, a new 2nd generation PDE5i: comprehensive review and meta-analysis

Giovanni Corona^a, Giulia Rastrelli^a, Andrea Burri^a, Emmanuele A. Jannini^a and M Maggi^b

Comunicare con il paziente

PILLOLA BLU

PILLOLA DEL WEEKEND

MENTINA DELL'AMORE



Comunicare con il paziente

PILLOLA BLU

PILLOLA DEL WEEKEND

MENTINA DELL'AMORE

PILLOLA SENZAPENSIERI



Biologia delle corna



Biologia dell'infedeltà

- Le caratteristiche anatomiche e quelle fisiologiche ci hanno fatto evolvere sotto la spinta di due differenti esigenze:
 - Il bisogno di stabilità
 - Il bisogno di varietà

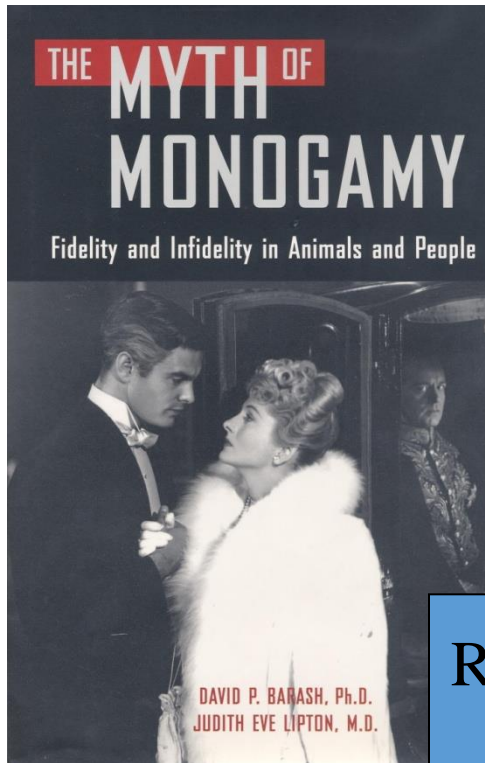
The good news from evolutionary psychology is that human beings are designed to fall in love. The bad news is that they aren't designed to stay there.

5) Biologia dell'infedeltà

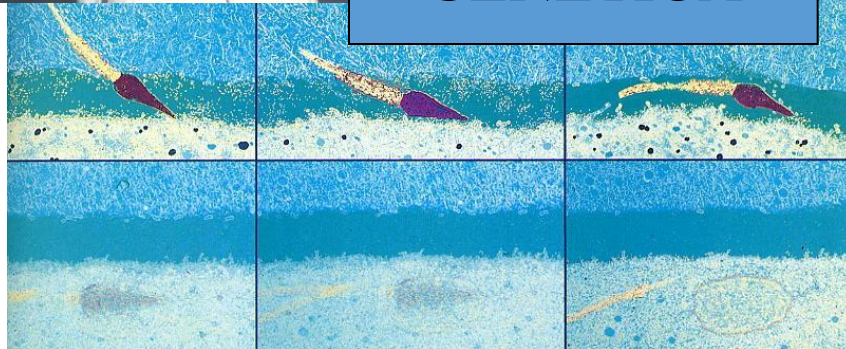
- Le caratteristiche anatomiche e quelle fisiologiche ci hanno fatto evolvere sotto la spinta di due differenti esigenze:
 - Il bisogno di stabilità
 - Il bisogno di varietà
- Siamo quindi animali **monogami infedeli**.

The good news from evolutionary psychology is that human beings are designed to fall in love. The bad news is that they aren't designed to stay there.

Biologia dell'infedeltà maschile



RIDONDANZA GENETICA



- Un maschio produce in ogni eiaculazione un numero di spermatozoi doppio rispetto a quanto necessario per potenzialmente fecondare l'intera popolazione femminile statunitense.

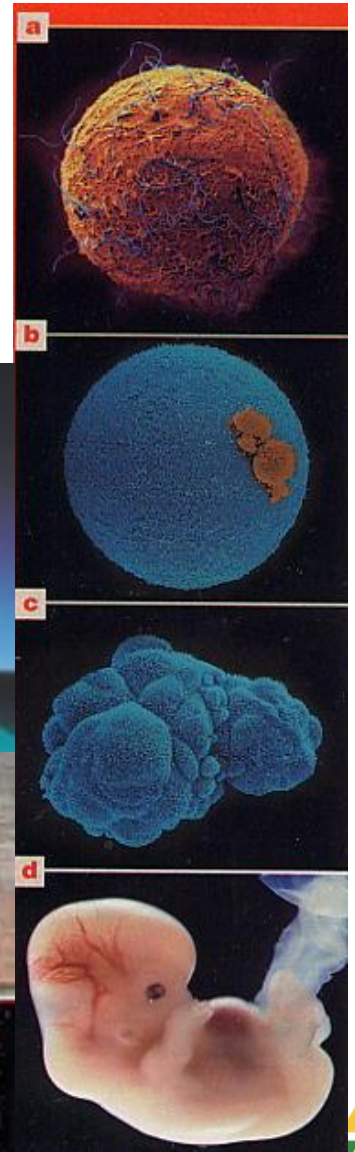
Biologia dell'infedeltà femminile

- La *concealed ovulation* è una caratteristica della femmina d'uomo.



Biologia dell'infedeltà femminile

- La *concealed ovulation* è una caratteristica della femmina d'uomo.
- Ciò ha provocato il bisogno di controllare la sessualità femminile, in alternativa all'infanticidio (*azzerramento dell'altrui DNA*).



Conseguenze dell'infedeltà femminile

- La promiscuità femminile è una “scoperta” recente.



Conseguenze dell'infedeltà femminile



- La promiscuità femminile è una “scoperta” recente.
- La promiscuità femminile è stata verificata in specie “fedelissime”, come gli uccelli.

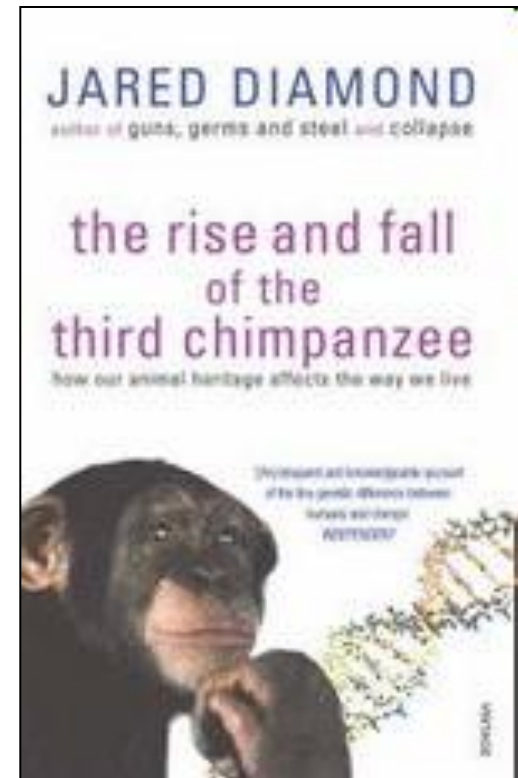
Conseguenze dell'infedeltà femminile



- La promiscuità femminile è una “scoperta” recente.
- La promiscuità femminile è stata verificata in specie “fedelissime”, come gli uccelli.
- Il 10% degli occidentali non è figlio di chi crede sia il proprio padre.

Diamond, Jared, book, "The Rise and Fall of the Third Chimpanzee", pp. 72-73








Significant number of children turn out to have be fathered by someone other than their putative father: "extramarital sex is an integral, albeit unofficial, part of the human mating system." Also, refers to "... a study of blood typing and genetics which had unexected results and was quashed. It was done in the **1940s** at a "highly respectable" US hospital. **The study found that fully 10 percent of babies were not the biological offspring of their legal fathers"**



Reasons for the use of ABO system

- blood group studies cannot be used to **prove paternity**
- they can provide unequivocal evidence that **a male is not the father of a particular child.**
- Red cell antigens are inherited as dominant traits, a child cannot have a blood group antigen that is not present in one or both parents.

The ABO Blood System

Blood Type (genotype)	Type A (AA, AO)	Type B (BB, BO)	Type AB (AB)	Type O (OO)
Red Blood Cell Surface Proteins (phenotype)	 A agglutinogens only	 B agglutinogens only	 A and B agglutinogens	 No agglutinogens
Plasma Antibodies (phenotype)	 b agglutinin only	 a agglutinin only	NONE. No agglutinin	 a and b agglutinin

Exclusions of paternity on the ABO system

matings	possible children	impossible children
O X O	O	A, B, AB
O X A	O, A	B, AB
O X B	O, B	A, AB
O X AB	A, B	O, AB
A X A	O, A	B, AB
A X B	O, A, B, AB	
A X AB	A, B, AB	O
B X B	O, B	A, AB
B X AB	A, B, AB	O
AB X AB	A, B, AB	O

The ABO system

If a child belongs to group A and both the mother and the putative father are group O, the man is excluded from paternity.

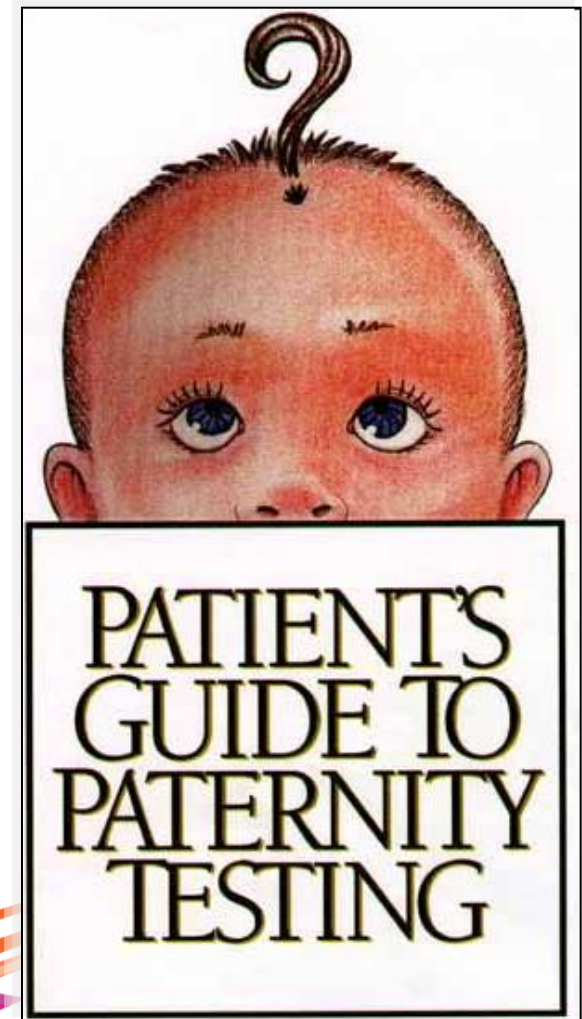
The table shows the phenotypes of the offspring that can and cannot be produced in the matings on the ABO system, considering only the three alleles (alternative genes) A, B, and O.

From Enciclopedia Britannica

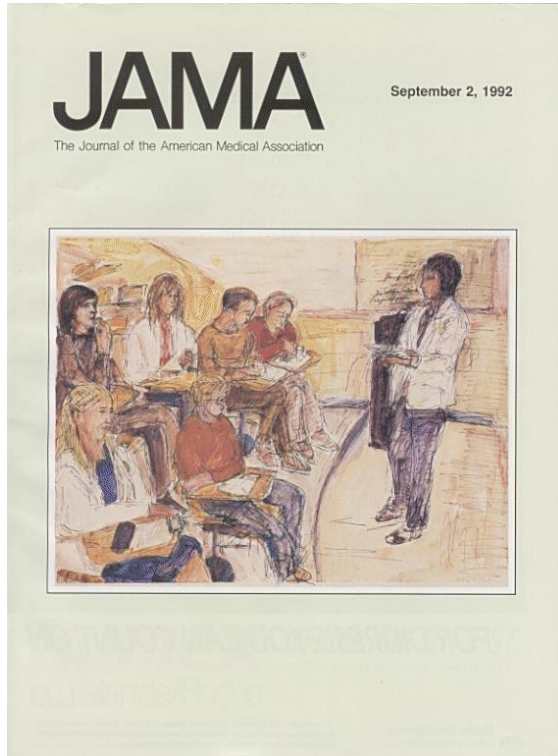


How many? The... opinions

- **Jeanette Papp**, director of genotyping and sequencing in UCLA's department of human genetics, feel that 15 per cent is reasonable for the Western world, even if there is no hard evidence. "It's hard to do studies on these things for ethical reasons".
- A British survey conducted between 1988 and 1996 by **Robin Baker**, a former professor at the University of Manchester, confirmed the **10-per-cent figure**.
- That seems high to skeptics such as Dalhousie University geneticist **Paul Neumann**, although even he admitted that "my colleague, who's a woman, tells me women have no trouble believing it. . . . It's the men who can't."

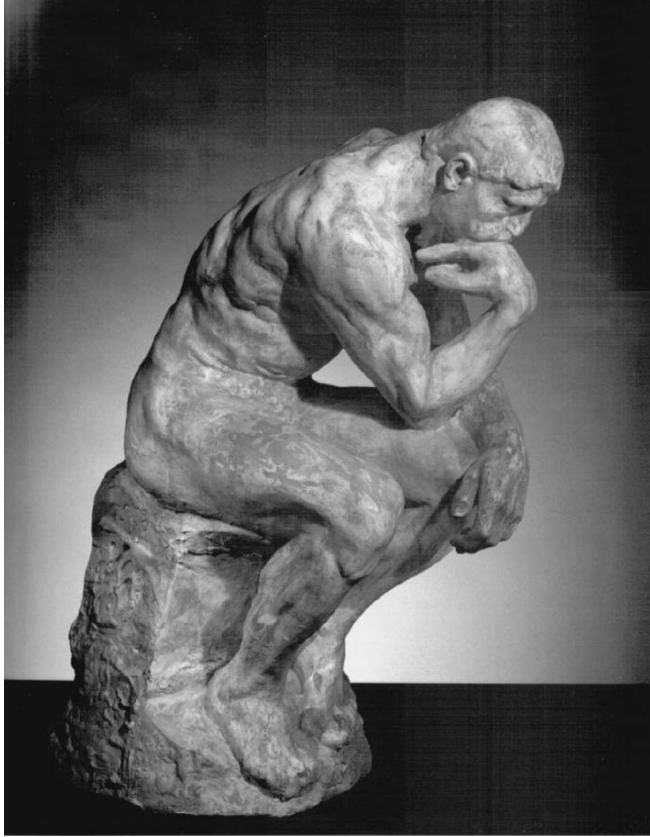


Sussman, LN, Schatkin, SB: "Blood Grouping Tests in Undisputed Paternity Proceedings". JAMA 64:249-250.



- In the courts where paternity cases are heard, only a minority of the accused men deny paternity.
- It has been shown that 30 to 40% of men who deny paternity are falsely accused.
- Using the A-B-0 blood typing system it was found that **18%** of the men who had voluntarily admitted paternity, were not the actual fathers of the children.
 - "Blood-grouping tests (...)in 67 cases of uncontested paternity indicate that in 6 cases, or 9%, the men admitting paternity were not the fathers of the children they accepted. Since only 50% of wrongfully accused men can be excluded by present methods of blood testing, it follows that not 6 but actually 12 men in this small series who admitted paternity were probably not the fathers of the children in question

A. Lucassen, M. Parker, "Revealing false paternity: some ethical considerations", Lancet 357 (2001), 1033-5.



- "The true frequency of non-paternity is not known, but published reports suggest an incidence from as low as 1% per generation up to **about 30%** in the population.

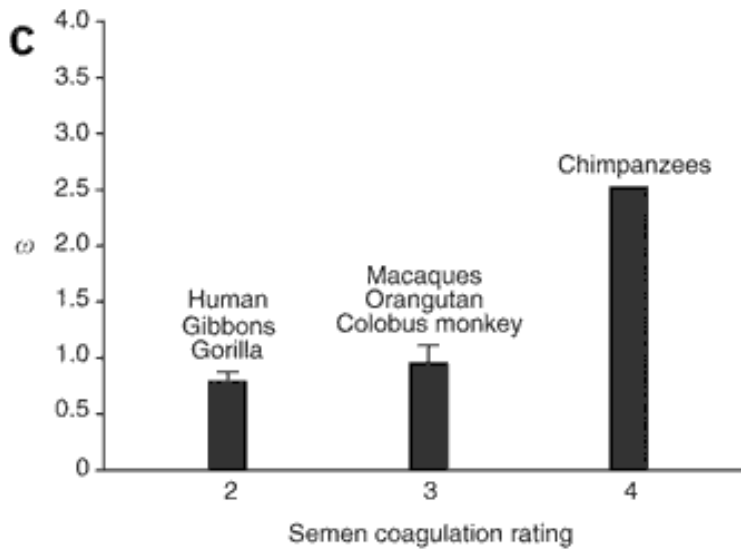
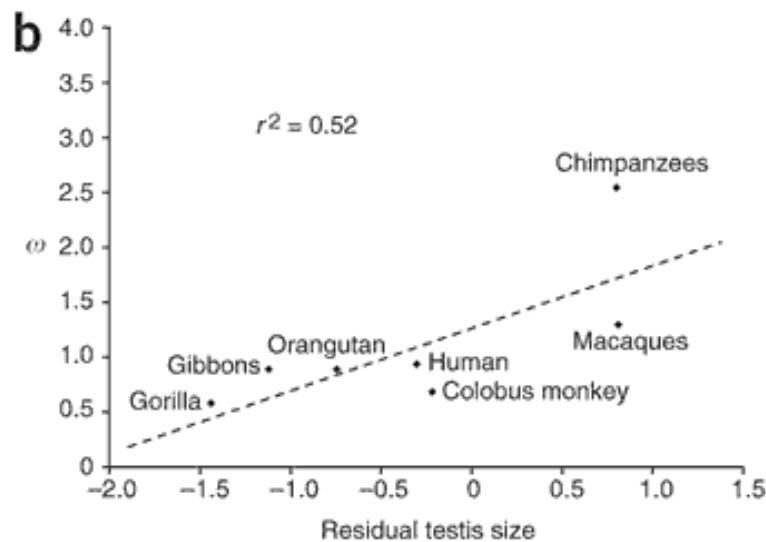
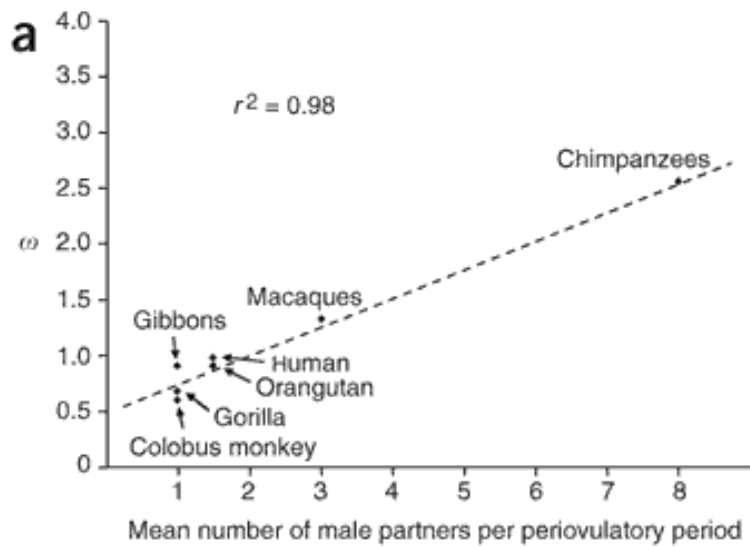
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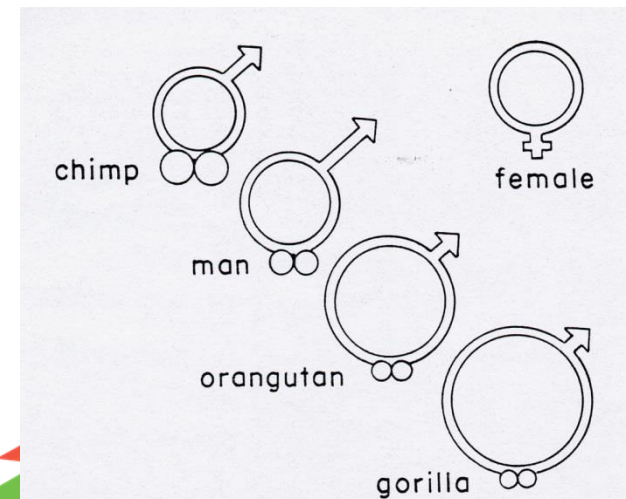
La competizione spermatica

- I maschi di molte specie hanno dovuto evolvere meccanismi di **competizione spermatica**.





The body/testis ratio



Conclusione

La **scienza dell'amore** spiega il <<come eravamo>>, perché i nostri comportamenti sessuali, erotici e seduttivi si sono evoluti come li conosciamo e permette – forse - di ipotizzare come si evolveranno in un trend sempre meno **dimorfico**.



Come lei seduce lui



Katharine Hepburn a Humphrey Bogart ne “La Regina d’Africa” (1951):

<<la Natura, mister Alnutt, è quella cosa per sollevarci al di sopra della quale noi siamo a questo mondo>>.