

Semen And Sperm Difference

It can be used to sort out sperm that are most healthy, as well as for determination of more specific traits, such as sex selection in which spermatozoa are separated into X- (female) and Y- (male) chromosome bearing populations based on their difference in DNA content. The resultant 'sex-sorted' spermatozoa are then able to be used in conjunction with other assisted reproductive technologies such as artificial insemination or in-vitro fertilization (IVF) to produce offspring of the desired sex - in farming animals but also in human medical practice. 261d5b8c2a The sperm whale is a pelagic mammal with a worldwide range, and will migrate seasonally for feeding and breeding. Females and young males live together in groups, while mature males (bulls) live solitary lives outside of the mating season. The females cooperate to protect and nurse their young. Females give birth every four to twenty years and care for the calves for more than a decade. A mature, healthy sperm whale has no natural predators, although calves and weakened adults are sometimes killed by pods of orcas. 261d5b8c2a

Intracytoplasmic sperm injection With this method, the acrosome reaction is skipped. This technique is used in order to prepare the gametes for the obtention of embryos that may be transferred to a maternal uterus. Intracytoplasmic sperm injection (ICSI /'iksi/ IK-see) is an in vitro fertilization (IVF) procedure in which a single sperm cell is injected directly into Intracytoplasmic sperm injection (ICSI IK-see) is an in vitro fertilization (IVF) procedure in which a single sperm cell is injected directly into the cytoplasm of an egg 261d5b8c2a

== Humans == 261d5b8c2a A sperm bank may be a separate entity supplying donor sperm to individuals or to fertility clinics, or it may be a facility which is run by a clinic for their customers. 261d5b8c2a "Sperm theft", also known as "unauthorized use of sperm", "spermjacking" or "spurgling" (a portmanteau of sperm and burglary), refers to a specific form of forced fatherhood in which a man's semen is used to impregnate a woman without his consent. Although the term uses the word "theft", it more closely falls under a state of fraud or breach of contract. Stealing of sperm in itself without using it for successful insemination is not illegal and is difficult to prove. It usually has no bearing on issues like child support. It is considered an issue in the men's rights movement. 261d5b8c2a Mature males average 16 metres (52 ft) in length, with the head representing up to one-third of the animal's length. Plunging to 2,250 metres (7,380 ft), it is the third deepest diving mammal, exceeded only by the southern elephant seal and Cuvier's beaked whale. The sperm whale uses echolocation and vocalization with source level as loud as 236 decibels... 261d5b8c2a

Semen cryopreservation It can be used for sperm donation where the recipient wants the treatment in a different time or place, or as a means of preserving fertility for men undergoing vasectomy or treatments that may compromise their fertility, such as chemotherapy, radiation therapy or surgery. It is also often used by trans women prior to medically transitioning in ways that affect fertility, such as feminizing hormone therapy and orchiectomies. Semen can be used successfully indefinitely[citation Semen cryopreservation (commonly called sperm banking or sperm freezing) is a procedure to preserve sperm cells. Semen can be used successfully indefinitely after cryopreservation. Semen cryopreservation (commonly called sperm banking or sperm freezing) is a procedure to preserve sperm cells 261d5b8c2a

== Freezing == 261d5b8c2a Round spermatid injection (ROSI) is a technique of assisted reproduction whereby a round spermatid is injected into oocyte cytoplasm in order to achieve fertilization. This technique can be used to enable genetic fatherhood... 261d5b8c2a A sperm donor must generally meet specific requirements regarding age and screening for adverse medical history. In the United States, sperm banks are regulated as Human Cell and Tissue or Cell and Tissue Bank Product (HCT/Ps) establishments by the Food and Drug Administration. Many... 261d5b8c2a The most common cryoprotectant used for semen is glycerol (10% in culture medium). Often sucrose or other di-, trisaccharides are added to glycerol solution. Cryoprotectant media may be supplemented with either egg yolk or soy lecithin, with the two having no statistically significant differences compared to each other regarding motility, morphology, ability to bind to hyaluronate in vitro, or DNA integrity after thawing. 261d5b8c2a 'Sperm competition' is often compared to having tickets in a raffle; a male... 261d5b8c2a == Methods == 261d5b8c2a

Sperm Wars to remove other men's semen. Male masturbation is said to discard old, dying sperm, so that an ejaculate contains younger sperm that will stay active Sperm Wars is a popular science book by evolutionary biologist Robin Baker about sperm competition. Originally published in English in 1996, it has since appeared in 25 languages and in 2006 a 10th anniversary edition was published in the United States 261d5b8c2a

Through a series of short fictional stories and discussion following them, Baker proposes evolutionary functions for sexual habits, mostly on the principle of competition between sperm of different men for a prized egg. The "sperm wars" include both literal battles between sperm inside a woman's reproductive tract, as well as figurative battles between men competing for the chance to mate. The book is controversial, both because of its explanations of homosexuality, sexual assault, and prostitution, and because some critics have claimed that several of the hypotheses in the book are not supported by scientific research. 261d5b8c2a Sperm competition is an evolutionary pressure

on males, and has led to the development of adaptations to increase male's chance of reproductive success. Sperm competition results in a sexual conflict between males and females. Males have evolved several defensive tactics including: mate guarding, mating plugs, and releasing toxic seminal substances to reduce female re-mating tendencies to cope with sperm competition. Offensive tactics of sperm competition involve direct interference by one male on the reproductive success of another male, for instance by mate guarding or by physically removing another male's sperm prior to mating with a female. For an example, see *Gryllus bimaculatus*. 261d5b8c2a

Artificial insemination It is a fertility treatment for humans, and is a common practice in animal breeding, including cattle (see frozen bovine semen) and pigs. conservation Frozen bovine semen Frozen zoo Intracytoplasmic sperm injection Semen extender Sperm bank Sperm donation Sperm sorting Surrogacy "ARTIFICIAL Artificial insemination is the deliberate introduction of sperm into the cervix or uterine cavity for the purpose of achieving pregnancy through in vivo fertilization by means other than sexual intercourse 261d5b8c2a

Sperm competition is not exclusive to humans, and has been studied extensively in other primates, as well as throughout much of the animal kingdom. The differing rates... 261d5b8c2a Artificial insemination may employ assisted reproductive technology, sperm donation and animal husbandry techniques. Artificial insemination techniques available include intracervical insemination (ICI) and intrauterine insemination (IUI). Where gametes from a third party are used, the procedure may be known as 'assisted insemination'. 261d5b8c2a

Human sperm competition production of large amounts of sperm is costly and therefore, researchers have predicted that males will produce larger amounts of semen when there is a perceived Sperm competition is a form of post-copulatory sexual selection whereby male sperm simultaneously physically compete to fertilize a single ovum. Sperm competition among males has resulted in numerous physiological and psychological adaptations, including the relative size of testes, the size of the sperm midpiece, prudent sperm allocation, and behaviors relating to sexual coercion, however this is not without consequences: the production of large amounts of sperm is costly and therefore, researchers have predicted that males will produce larger amounts of semen when there is a perceived or known increase in sperm competition risk. Sperm competition occurs between sperm from two or more rival males when they make an attempt to fertilize a female within a sufficiently short period of time. This results primarily as a consequence of polyandrous mating systems, or due to extra-pair copulations of females, which increases the chance of cuckoldry, in which the male mate raises a child that is not genetically related to him 261d5b8c2a

== Round spermatid injection (ROSI) == 261d5b8c2a Additional cryoprotectants can be used to increase sperm viability and fertility rates post-freezing. Treatment of sperm with heparin binding proteins... 261d5b8c2a == Definition == 261d5b8c2a A pregnancy may be achieved using donor sperm for insemination with similar outcomes to sexual intercourse. By using sperm from a donor rather than from the sperm recipient's partner, the process is a form of third party reproduction. In the 21st century artificial insemination with donor sperm from a sperm bank is most commonly used for individuals with no male partner, such as single women and coupled lesbians. 261d5b8c2a

Sperm bank A sperm bank, semen bank, or cryobank is a facility that purchases, stores, and sells human semen. Sperm sold by a sperm donor is known as donor sperm. The semen is produced and sold by men who are known as sperm donors. The semen is produced and sold by men who are known A sperm bank, semen bank, or cryobank is a facility that purchases, stores, and sells human semen. The sperm is purchased by other persons for the purpose of achieving a pregnancy other than by a sexual partner 261d5b8c2a

The first human pregnancy generated by ICSI was carried out in 1991 by Gianpiero Palermo and his team. 261d5b8c2a

Sperm whale (See "Spermaceti organ and melon" below. It is the only living member of the genus *Physeter* and one of three extant species in the sperm whale superfamily *Physeteroidea*, along with the pygmy sperm whale and dwarf sperm whale of the genus *Kogia*. the whales's semen, is the semi-liquid, waxy substance found within the whale's head.) The sperm whale is also The sperm whale or cachalot (*Physeter macrocephalus*) is the largest of the toothed whales and the largest toothed predator 261d5b8c2a

Forced fatherhood falls into three main categories: 261d5b8c2a

Sperm sorting Density gradient centrifugation (in a continuous or discontinuous gradient) can concentrate semen samples Sperm sorting is a means of choosing what type of sperm cell is to fertilize an egg cell using several conventional techniques of centrifugation or swim-up. Newly applied methods such as flow cytometry expand the possibilities of sperm sorting and new techniques of sperm sorting are being developed. sort sperm before the advent of flow cytometry 261d5b8c2a

== Description == 261d5b8c2a Oral sex is explained as an opportunity for partners to judge each other's reproductive health, and for mates to detect recent infidelity (also proposed by Kohl & Francoeur, 1995 "The Scent of Eros"). The shape of the penis and the thrusting during intercourse serve to remove other men's semen. Male... 261d5b8c2a

Forced fatherhood "spurgling" (a portmanteau of sperm and burgling), refers to a specific form of forced fatherhood in which a man's semen is used to impregnate a woman. Forced fatherhood or imposed paternity can include deception by a partner about their ability to get pregnant or use of contraceptives, birth control sabotage, paternity fraud and sexual assaults of males that result in pregnancy.

Sperm competition However, multiple mates for a female means each individual male has decreased chances of producing offspring. to "upsuck" another man's semen before depositing its own. Competition can occur when females have multiple potential mating partners. Greater choice and variety of mates increases a female's chance to produce more viable offspring. Evolution to increase ejaculate volume in the presence of sperm competition has a consequence. Sperm competition is the competitive process between spermatozoa of two or more different males to fertilize the same egg during sexual reproduction.

There are several differences between classic IVF and ICSI. However, the steps to be followed before and after insemination are the same. In terms of insemination, ICSI needs only one sperm cell per oocyte, while IVF needs 50,000-100,000. This is because the acrosome reaction has to take place and thousands of sperm cells have to be involved in IVF. Once fertilized, the egg is transformed into a pre-embryo and it has to be transferred to the uterus to continue its development.

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