

Spermatogenesis

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of a seminiferous tubule showing various stages of spermatocyte development Spermatogenesis is the process by which male spermatogonia develop into mature spermatozoa. Spermatozoa are the mature male gametes in many sexually reproducing organisms. Thus, spermatogenesis is the male version of gametogenesis. In mammals it occurs in the male testes and epididymis in a stepwise fashion, and for humans takes approximately 64 days. Spermatogenesis is highly dependent upon optimal conditions for the process to occur correctly, and is essential for sexual reproduction. It starts at puberty and usually continues uninterrupted until death, although a slight decrease can be discerned in the quantity of produced sperm with increase in age. The entire process can be broken up into several distinct stages, each corresponding to a particular type of cell: ([From the Wikipedia article Spermatogenesis.](#))

Recent Publications on Spermatogenesis:



- [Immunohistochemical Localization of Steroidogenic Enzymes in the Testis of the Sika Deer \(Cervus nippon\) During Developmental and Seasonal Changes.](#)
Testicular steroidogenesis and spermatogenesis during developmental and... 21st November, 2009
Laboratory of Veterinary Anatomy, Department of Basic Veterinary Medicine,- J Reprod Dev. 2009 Nov 19.
- [Genetic Influences in Mouse Spermatogonial Stem Cell Self-Renewal.](#)
Spermatogonial stem cells (SSCs) are slowly dividing cells that undergo... 21st November, 2009
Department of Molecular Genetics, Graduate School of Medicine, Kyoto- J Reprod Dev. 2009 Nov 19.
- [Some Single Nucleotide Polymorphisms of the TSSK2 Gene May Be Associated with Human Spermatogenesis Impairment.](#)
Tssk2, a member of the testis specific serine/threonine kinase (TSSK)... 21st November, 2009
- J Androl. 2009 Nov 19. ([DOI Direct Link](#))
- [Analysis of Polymorphisms in the SRD5A2 Gene and Semen Parameters in Estonian Men.](#)
Spermatogenesis is an androgen-dependent process and polymorphisms in... 21st November, 2009
- J Androl. 2009 Nov 19. ([DOI Direct Link](#))
- [Trypsin is a multifunctional factor in spermatogenesis.](#)
Trypsin is well known as a pancreatic enzyme that is typically secreted... 21st November, 2009
Research Group for Reproductive Physiology, Southern Ehime Fisheries- Proc Natl Acad Sci U S A. 2009 Nov 19. ([DOI Direct Link](#))
- [Expression profiling of rainbow trout testis development identifies evolutionary conserved genes involved in spermatogenesis.](#)
ABSTRACT: BACKGROUND: Spermatogenesis is a late developmental process that... 21st November, 2009
- BMC Genomics. 2009 Nov 20;10(1):546. ([DOI Direct Link](#))

- [Gene expression profiles of mouse spermatogenesis during recovery from irradiation.](#)
*ABSTRACT: BACKGROUND: Irradiation or chemotherapy that suspend normal...*21st November, 2009
- *Reprod Biol Endocrinol.* 2009 Nov 19;7(1):130. ([DOI Direct Link](#))
- [Potential testicular toxicity of sodium nitrate in adult rats.](#)
*Nitrate is a common contaminant in groundwater aquifers. current study...*20th November, 2009
Department of Pharmacology and Toxicology, Faculty of Pharmacy, Al-Azhar- Food Chem Toxicol.
2009 Nov 13. ([DOI Direct Link](#))
- [Molecular Reproduction & Development: Volume 77, Issue 1.](#)
*Leydig cells in the seminiferous tubule co-express the lutenizing hormone...*19th November, 2009
- *Mol Reprod Dev.* 2009 Nov 17;77(1). ([DOI Direct Link](#))
- [Fasciola hepatica: disruption of spermatogenesis by the fasciolicide compound alpha.](#)
*Sheep infected with the triclabendazole-susceptible Cullompton isolate of...*19th November, 2009
Parasite Therapeutics Research Group, School of Biological Sciences, The- Parasitol Res. 2009 Nov 18. ([DOI Direct Link](#))
- [Soy, phyto-oestrogens and male reproductive function: a review.](#)
*There is growing interest in the possible health threat posed by the...*19th November, 2009
Department of Genetic Medicine and Development, University of Geneva- *Int J Androl.* 2009 Nov 16. ([DOI Direct Link](#))
- [Effects of dietary fumonisin B1 on the onset of puberty, semen quality, fertility rates, and testicular morphology in male rabbits.](#)
*The influences of dietary fumonisin B1 (FB1), a metabolite of Fusarium...*18th November, 2009
E Ewuola, Animal Physiology Laboratory, Department of Animal Science,- *Reproduction.* 2009 Nov 16. ([DOI Direct Link](#))
- [Identification of Messenger RNA Substrates for Mouse T-STAR.](#)
*Using the method of isolation of specific nucleic acids associated with...*18th November, 2009
Department of Medical Genetics, State Key Laboratory of Biotherapy, West- *Biochemistry (Mosc).* 2009 Nov;74(11):1270-7.
- [Worms from Venus and Mars: Proteomics profiling of sexual differences in Caenorhabditis elegans using in vivo 15N isotope labeling.](#)
*Hermaphrodites of the nematode Caenorhabditis elegans produce both sperm...*18th November, 2009
- *J Proteome Res.* 2009 Nov 16. ([DOI Direct Link](#))
- [Ca\(2+\)-modulated membrane guanylate cyclase in the testes.](#)
*To date, the calcium-regulated membrane guanylate cyclase Rod Outer...*17th November, 2009
Department of Cell Biology, Poznan University of Medical Sciences,- *Mol Cell Biochem.* 2009 Nov 15. ([DOI Direct Link](#))

BioNews Results for Spermatogenesis

- [Normal Spermatogenesis in a Man with Mutant Luteinizing Hormone](#)
Doctors Guide: Nov 9 2009 4:40PM Matching: spermatogenesis
- [Normal Spermatogenesis in a Man with Mutant Luteinizing Hormone](#)
MDLinx: Nov 5 2009 10:24AM Matching: spermatogenesis
- [Brief Report: Normal Spermatogenesis in a Man with Mutant Luteinizing Hormone](#)
New England Journal of Medicine: Nov 4 2009 10:20PM Matching: spermatogenesis
- [TSPY1 Copy Number Variation Influences Spermatogenesis and Shows Differences among Y Lineages](#)
MDLinx: Oct 12 2009 12:49PM Matching: spermatogenesis



Spermatogenesis Patents:

- 7544696- [Spermicidal and/or antifungal composition and methods of using the same](#)
- 7569225- [Immunogenic lipopeptides comprising T-helper and B-cell epitopes](#)
- 7569237- [Composition for enhancing male fertility](#)
- 7572434- [Method for assessing the effect of a drug on long term memory formation](#)
- 7572820- [Chemical compounds](#)
- 7579154- [Annealing control primer and its uses](#)
- 7579161- [Assay methods for suppressor of fused modulation of hedgehog signaling](#)
- 7579515- [Increasing gamete production with a gene switch](#)
- 7582622- [Steroids having a mixed androgenic and progestagenic profile](#)
- 7585622- [Increasing the proliferative capacity of cells using telomerase reverse transcriptase](#)
- 7585646- [Human GIL-19/AE289 polynucleotides and methods of producing the encoded polypeptides](#)
- 7566814- [Site-specific recombination in eukaryotes and constructs useful therefor](#)
- 7566536- [WNT-regulated cytokine-like polypeptide and nucleic acids encoding same](#)
- 7547767- [Growth arrest specific gene 6 peptides, antibodies, compositions, methods and uses](#)
- 7550458- [Tricycloundecane compounds useful as modulators of nuclear hormone receptor function](#)
- 7550650- [Production of a transgenic avian by cytoplasmic injection](#)
- 7553492- [Pharmaceutical compositions containing angiogenic activators](#)
- 7560233- [Oxidative DNA damage protection](#)
- 7560437- [Nucleic acid compositions for eliciting an immune response against telomerase reverse transcriptase](#)
- 7560460- [Substituted piperazines and methods of use](#)
- 7563763- [FSH and FSH variant formulations, products and methods](#)
- 7563825- [Modulation of beta-catenin coactivator interactions to effect stem cell growth or differentiation](#)
- 7566452- [Cancer treatment with endothelin receptor antagonists](#)
- 7585671- [Hedgehog interacting proteins and uses related thereto](#)
- 7585839- [Medical uses of intercellular communication facilitating compounds](#)
- 7585877- [Aminophenyl derivatives as selective androgen receptor modulators](#)
- 7608606- [Pharmaceutical composition](#)
- 7608607- [Pharmaceutical composition](#)
- 7608608- [Pharmaceutical composition](#)
- 7608609- [Pharmaceutical composition](#)
- 7608610- [Pharmaceutical composition](#)
- 7611839- [Methods for diagnosing RCC and other solid tumors](#)
- 7611879- [27877, 18080, 14081, 32140, 50352, 16658, 14223, 16002, 50566, 65552 and 65577 molecules and uses therefor](#)
- 7611893- [Metal-binding therapeutic peptides](#)
- 7615349- [Melanoma gene signature](#)
- 7618816- [Metal-binding therapeutic peptides](#)
- 7608605- [Pharmaceutical composition](#)
- 7608451- [Gene regulation in transgenic animals using a transposon-based vector](#)
- 7586003- [Derivatives of seleno-amino acids](#)
- 7586604- [Optical apparatus](#)
- 7592501- [Methods for maintaining genetic stability of inbred animal strains](#)
- 7595038- [Methods of treatment using antibodies to follistatin-3](#)

- 7595056- [Methods of rejuvenating Leydig cells and enhancing testosterone production in a male subject](#)
- 7595402- [Prodrugs of selective androgen receptor modulators and methods of use thereof](#)
- 7601516- [Heterodimeric follicle stimulating hormone-Fc \(FSH-Fc\) fusion proteins for the treatment of infertility](#)
- 7601758- [Methods for concomitant administration of colchicine and macrolide antibiotics in the treatment of gout flares](#)
- 7601828- [Estimation method, human estrogen receptor alpha gene, genomic DNA, and diagnostic marker](#)
- 7601846- [Compounds having activity as inhibitors of apoptosis](#)
- 7619004- [Methods for concomitant administration of colchicine and macrolide antibiotics](#)

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