

Gametogenesis

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Gametogenesis is a process by which diploid or haploid precursor cells undergo cell division and differentiation to form mature haploid gametes. Depending on the biological life cycle of the organism, gametogenesis occurs by meiotic division of diploid gametocytes into various gametes or by mitotic division of haploid gametogenous cells. For example, plants produce gametes through mitosis in gametophytes. The gametophytes grow from haploid spores after sporic meiosis. The existence of a multicellular, haploid phase in the life cycle between meiosis and gametogenesis is also referred to as alternation of generations.



Recent Publications on Gametogenesis:

- [Equal sex ratios of a marine green alga, *Bryopsis plumosa*.](#)
By finding some important culture conditions as below, we succeeded in... 21st August, 2008
Marine Biosystems Research Center, Chiba University, Kamogawa 299-5502,- J Integr Plant Biol. 2008 Jun;50(6):648-52. ([DOI Direct Link](#))
- [\[Do folates have an impact on fertility?\]](#)
Folates are group B vitamins involved in the one-carbon metabolism. They... 15th August, 2008
Inserm U724 >,- Gynecol Obstet Fertil. 2008 Aug 11. ([DOI Direct Link](#))
- [Retinoblastoma and its binding partner MSI1 control imprinting in Arabidopsis.](#)
Parental genomic imprinting causes preferential expression of one of the... 15th August, 2008
Chromatin and Reproduction Group, Temasek Life Sciences Laboratory,- PLoS Biol. 2008 Aug 12;6(8):e194. ([DOI Direct Link](#))
- [Morphometric characteristics and reproductive capacity of nuclear transplants derived from embryonic cells of loach, *Misgurnus anguillicaudatus*.](#)
Nuclear transplants of loach were produced by transplanting blastula... 14th August, 2008
Department of Fisheries Science, Faculty of Agriculture, Kinki University,- J Exp Zool Part A Ecol Genet Physiol. 2008 Aug 12. ([DOI Direct Link](#))
- [Differential acetylation of histone H4 lysine during development of in vitro fertilized, cloned and parthenogenetically activated bovine embryos.](#)
The oocyte is remarkable in its ability to remodel parental genomes... 14th August, 2008
Animal Development and Biotechnology Group, School of Biosciences,- Epigenetics. 2008 Jul-Aug;3(4):199-209. Epub 2008 Jul 24.
- [GAB2 is involved in differential pi3-kinase signaling by two splice forms of C-kit.](#)
The stem cell factor receptor/c-Kit plays an important physiological role... 14th August, 2008
Exp.Clin.Chemistry, Dept. of Laboratory Medicine, Lund University, Malmo,- J Biol Chem. 2008 Aug 11. ([DOI Direct Link](#))
- [Japanese Eel Follicle-Stimulating Hormone \(Fsh\) and Luteinizing Hormone \(Lh\): Production of Biologically Active Recombinant Fsh and Lh by Drosophila S2 Cells and Their Differential Actions on](#)

[the Reproductive Biology.](#)

- Two gonadotropins (Gths), follicle-stimulating hormone (Fsh) and...*8th August, 2008
- Biol Reprod. 2008 Aug 6. ([DOI Direct Link](#))
- [Intrapopulation genome size dynamics in Festuca pallens.](#)
*Background and Aims It is well known that genome size differs among...*8th August, 2008
Masaryk University, Faculty of Science, Department of Botany and Zoology,- Ann Bot (Lond). 2008 Aug 5. ([DOI Direct Link](#))
 - [New research horizons: modelling germ cell development in vitro.](#)
*Germ cells have a critical role in mediating the generation of genetic...*5th August, 2008
MRC Human Reproductive Sciences Unit, The Queen's Medical Research- Mol Hum Reprod. 2008 Aug 1. ([DOI Direct Link](#))
 - [A Conserved E2F6-Binding Element in Murine Meiosis-Specific Gene Promoters.](#)
*During gametogenesis, germ cells must undergo meiosis in order to become...*1st August, 2008
- Biol Reprod. 2008 Jul 30. ([DOI Direct Link](#))
 - [Transfer of plastid DNA to the nucleus is elevated during male gametogenesis in tobacco.](#)
*In eukaryotes, many genes were transferred to the nucleus from prokaryotic...*29th July, 2008
School of Molecular and Biomedical Science, The University of Adelaide,- Plant Physiol. 2008 Jul 25. ([DOI Direct Link](#))
 - [Selected aspects of advanced porcine reproductive technology.](#)
*In vitro fertilization (IVF) of in vitro matured (IVM) oocytes in pigs has...*25th July, 2008
Division of Animal Sciences, National Institute of Agrobiological- Reprod Domest Anim. 2008 Jul;43 Suppl 2:401-6. ([DOI Direct Link](#))
 - [Sexually dimorphic expression of pituitary glycoprotein hormones in a sex-changing fish \(Pseudolabrus sieboldi\).](#)
*It is widely accepted that the hypothalamic-pituitary-gonadal axis is...*23rd July, 2008
Laboratory of Marine Biology, Faculty of Bioresource and Bioenvironmental- J Exp Zool Part A Ecol Genet Physiol. 2008 Jul 21. ([DOI Direct Link](#))
 - [Meiosis-driven genome variation in plants.](#)
*Meiosis includes two successive divisions of the nucleus with one round of...*23rd July, 2008
Department of Plant Sciences, North Dakota State University.- Curr Genomics. 2007 May;8(3):151-61.
 - [Regulation and function of the Rhox5 homeobox gene.](#)
*The discovery of the Rhox homeobox gene cluster on the X chromosome opens...*19th July, 2008
Department of Biochemistry and Molecular Biology, University of Texas M.- Int J Androl. 2008 Jul 9. ([DOI Direct Link](#))

Gametogenesis Patents:



- 7064246- [Use of transposable elements for altering gene expression](#)
- 7166778- [Plants and seeds of corn variety I104774](#)
- 7166779- [Plants and seeds of variety I294213](#)
- 7166780- [Plants and seeds of variety I180421](#)
- 7169981- [Plants and seeds of corn variety 1015036](#)
- 7169983- [Plants and seeds of high oil corn variety HOI001](#)
- 7173171- [Plants and seeds of corn variety I180580](#)

- 7173172- [Plants and seeds of corn variety I325369](#)
- 7179969- [Plants and seeds of corn variety I181334](#)
- 7186513- [Methods for monitoring multiple gene expression](#)
- 7186899- [Plants and seeds of corn variety I918166](#)
- 7164065- [Plants and seeds of corn variety I060064](#)
- 7161070- [Plants and seeds of corn variety I180576](#)
- 7161069- [Plants and seeds of high oil corn variety HOI002](#)
- 7078593- [Sequence regulating the anther-specific expression of a gene and its use in the production of androsterile plants and hybrid seeds](#)
- 7087371- [Material and methods for the production of sperm and analysis thereof](#)
- 7135608- [Site-specific recombination in eukaryotes and constructs useful therefor](#)
- 7138562- [Transgenic animals](#)
- 7141724- [Plants and seeds of corn variety I450436](#)
- 7154024- [Male tissue-preferred regulatory sequences of Ms45 gene and method of using same](#)
- 7157625- [Plants and seeds of corn variety I325350](#)
- 7157626- [Plants and seeds of corn variety I390171](#)
- 7157627- [Plants and seeds of variety I161538](#)
- 7157628- [Plants and seeds of variety I322683](#)
- 7186900- [Plants and seeds of variety I156024](#)
- 7194978- [Inducing sterility in fish by disrupting the development of the GnRH system](#)
- 7256280- [Cell cycle nucleic acids, polypeptides and uses thereof](#)
- 7279624- [Plants and seeds of corn variety I015011](#)
- 7282621- [Somatic recombination](#)
- 7303917- [Modification of pollen coat protein composition](#)
- 7323619- [Method for producing transgenic birds and fish](#)
- 7342108- [De novo DNA cytosine methyltransferase genes, polypeptides and uses thereof](#)
- 7342152- [Plants and seeds on corn variety I900420](#)
- 7368551- [De novo DNA cytosine methyltransferase genes, polypeptides and uses thereof](#)
- 7381868- [Plants and seeds of corn variety I071535](#)
- 7385034- [Complementary DNAs encoding proteins with signal peptides](#)
- 7255987- [Selecting animals for parentally imprinted traits](#)
- 7253346- [Plants and seeds of variety I116412](#)
- 7232678- [Identification of oligoadenylate synthetase-like genes](#)
- 7195775- [Protection of the female reproductive system from natural and artificial insults](#)
- 7196242- [Methods for identifying novel therapeutics and diagnostics in the p53 pathway](#)
- 7196244- [Method of transposon-mediated mutagenesis in the nematode caenorhabditis elegans](#)
- 7205459- [Transformable inbred corn line LIZL5 and methods for use thereof](#)
- 7205460- [Plants and seeds of corn variety I026458](#)
- 7208660- [Plants and seeds of corn variety I292796](#)
- 7214789- [Promoter, promoter control elements, and combinations, and uses thereof](#)
- 7214863- [Plants and seeds of variety I130247](#)
- 7220900- [Plants and seeds or corn variety I180581](#)
- 7230168- [Reversible male sterility in transgenic plants by expression of cytokinin oxidase](#)
- 7405287- [Method of treating a cancer](#)

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