

## Morula

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A morula is an embryo at an early stage of embryonic development, consisting of approximately 12-32 cells in a solid ball contained within the zona pellucida.



### Recent Publications on Morula:

- [Vitrification of in vitro matured oocytes of Mangalica and Large White pigs.](#)  
*The breeding of Mangalica, a native pig breed in Hungary, had been started...*3rd October, 2008  
Institute of Animal Sciences, University of West Hungary, H-9200- Acta Vet Hung. 2008 Sep;56(3):399-410.
- [\[Expression of imprinted Igf2 and Peg1/Mest genes in postimplantation parthenogenetic mouse embryos treated with transforming growth factor alpha in vitro\]](#)  
*The effect of transforming growth factor alpha (TGf $\alpha$ ) on the expression of...*2nd October, 2008  
- Genetika. 2008 Aug;44(8):1148-52.
- [Time-lapse cinematography of dynamic changes occurring during in vitro development of human embryos.](#)  
*OBJECTIVE: The purpose of this study was to clarify developmental changes...*1st October, 2008  
Reproductive Centre, Mio Fertility Clinic, Tottori University Medical- Am J Obstet Gynecol. 2008 Sep 26. ([DOI Direct Link](#))
- [Cyclin-dependent kinase-associated proteins Cks1 and Cks2 are essential during early embryogenesis and for cell cycle progression in somatic cells.](#)  
*Cks proteins associate with cyclin-dependent kinases and have therefore...*30th September, 2008  
Department of Molecular Biology, The Scripps Research Institute, 10550- Mol Cell Biol. 2008 Sep;28(18):5698-709. Epub 2008 Jul 14. ([DOI Direct Link](#))
- [Effects of different concentrations of bovine follicular fluid and estrous cow serum on development of murine 2-cell embryos.](#)  
*Murine 2-cells embryos were isolated from murine oviducts at laboratory...*27th September, 2008  
Department of Clinical Sciences, Faculty of Veterinary Medicine,- Pak J Biol Sci. 2008 Feb 15;11(4):628-32.
- [Pregnancy rate following transfer of in vitro produced lamb derived embryos in two embryonic stages.](#)  
*Ovine embryos were produced by maturation, fertilization and in vitro...*26th September, 2008  
Research Institute of Animal Embryo Technology, Shahrekord University,- Pak J Biol Sci. 2008 Mar 15;11(6):938-41.
- [Spatio-temporal expression of transcriptional regulators in concert with the maternal to embryonic transition during bovine in vitro embryogenesis.](#)  
*Cleavage stage bovine embryos are transcriptionally quiescent until they...*23rd September, 2008  
C Vigneault, Animal Sciences, Laval University, Quebec, Quebec, Canada.- Reproduction. 2008 Sep 19. ([DOI Direct Link](#))

- [Isolation of mesenchymal stem cells from amniotic fluid and placenta.](#)  
*Diverse progenitor cell populations, including mesenchymal, hematopoietic,...*12th September, 2008  
Department of Surgery, Children's Hospital Boston and Harvard Medical- Curr Protoc Stem Cell Biol. 2007 Jun;Chapter 1:Unit 1E.2. ([DOI Direct Link](#))
- [Multiplex RT-PCR Expression Analysis of Developmentally Important Genes in Individual Mouse Preimplantation Embryos and Blastomeres.](#)  
*We have developed a microfluidic chip-based qualitative assay for...*12th September, 2008  
- Biol Reprod. 2008 Sep 10. ([DOI Direct Link](#))
- [Polycomb genes expression and histone H3 lysine 27 tri-methylation changes during bovine preimplantation development.](#)  
*Tri-methylation of Histone H3 at lysine 27 (H3K27me3) is established by...*12th September, 2008  
P Ross, Animal Science, Michigan State University, 48824, United States.- Reproduction. 2008 Sep 10. ([DOI Direct Link](#))
- [Immunomodulatory molecules in the compound ascidian Botryllus schlosseri: Evidence from conditioned media.](#)  
*The supernatant from cultures of haemocytes of the compound ascidian...*5th September, 2008  
Department of Biology, University of Padova, Via Trieste 75, 35121 Padova,- J Invertebr Pathol. 2008 Aug 18. ([DOI Direct Link](#))
- [The Turing-Child energy field as a driver of early mammalian development.](#)  
*The equivalence of the early mammalian cells, of importance in assisted...*6th August, 2008  
Department of Applied Mathematics and Theoretical Physics, Centre for- Prog Biophys Mol Biol. 2008 Sep;98(1):107-17. Epub 2008 Jul 31. ([DOI Direct Link](#))
- [Asynchronous replication dynamics of imprinted and non-imprinted chromosome regions in early mouse embryos.](#)  
*We have used interphase FISH to analyze the replication behavior of four...*5th August, 2008  
Institute for Human Genetics, Johannes Gutenberg University Mainz,- Exp Cell Res. 2008 Sep 10;314(15):2788-95. Epub 2008 Jul 22. ([DOI Direct Link](#))
- [Efficient Term Development of Vitrified Ferret Embryos Using a Novel Pipette Chamber Technique.](#)  
*Development of an efficient cryopreservation technique for the domestic...*18th July, 2008  
- Biol Reprod. 2008 Jul 16. ([DOI Direct Link](#))
- [Observation of the embryonic development in Pseudoplatystoma coruscans \(Siluriformes: Pimelodidae\) under light and scanning electron microscopy.](#)  
*SummaryPseudoplatystoma coruscans is a very popular species for tropical...*12th July, 2008  
Departamento de Morfologia e Fisiologia Animal, UNESP - Sao Paulo State- Zygote. 2008 Jul 11:1-10. ([DOI Direct Link](#))

#### Morula Patents:



- 7321075- [Serial nuclear transfer of ungulate embryos](#)
- 7341871- [Nucleotide sequences for gene regulation and methods of use thereof](#)
- 7341992- [Lectin-like domain of thrombomodulin and its therapeutic use](#)
- 7348418- [Carcinoma-related genes and polypeptides and methods of use thereof](#)
- 7351410- [Treatment of Pompe's disease](#)
- 7354738- [PGC-1.beta., a novel PGC-1 homologue and uses therefor](#)

- 7355094- [Methods of ungulate nuclear transfer](#)
- 7358231- [Pancreatic cancer secreted targets and uses thereof](#)
- 7361463- [Muteins of hypoxia inducible factor alpha and methods of use thereof](#)
- 7361504- [Culturing Anaplasma](#)
- 7361804- [Unactivated oocytes in nuclear transfer to produce ungulates](#)
- 7335811- [Method for collecting cells in M phase or G.sub.1 phase and method for nuclear transplantation using the cells](#)
- 7335754- [Ehrlichia canis genes and vaccines](#)
- 7335750- [Hybrid compositions for intracellular targeting](#)
- 7321076- [Unactivated ungulate oocytes to produce a cloned ungulate by nuclear transfer](#)
- 7323314- [Members of the capsaicin/vanilloid receptor family of proteins and uses thereof](#)
- 7323337- [Gene transfer into primate embryonic stem cells using VSV-G pseudotyped simian immunodeficiency virus vectors](#)
- 7323619- [Method for producing transgenic birds and fish](#)
- 7326824- [Unactivated ungulate oocytes to produce a transgenic ungulate by nuclear transfer](#)
- 7326825- [Methods of ungulate nuclear transfer](#)
- 7329529- [Ubiquitin proteases](#)
- 7329796- [Serial nuclear transfer of ungulate embryos](#)
- 7332648- [Unactivated oocytes in nuclear transfer to produce cultured inner cell mass cells and ungulates](#)
- 7335641- [Method for stimulating hair follicle cell proliferation](#)
- 7364919- [Nanoparticles](#)
- 7371380- [Anti-Cark antibodies and uses therefor](#)
- 7410989- [Compounds, methods and compositions useful for the treatment of bovine viral diarrhea virus \(BVDV\) infection and hepatitis C virus \(HCV\) infection](#)
- 7410999- [Compounds, methods and compositions useful for the treatment of bovine viral diarrhea virus \(BVDV\) infection and hepatitis C virus \(HCV\) infection](#)
- 7411111- [Method for cloning of the rat by nuclear transfer](#)
- 7413897- [Primitive and proximal hepatic stem cells](#)
- 7413902- [Feeder-free culture method for embryonic stem cells or primate primordial stem cells](#)
- 7414170- [Transgenic bovines capable of human antibody production](#)
- 7416885- [Proliferated cell lines and uses thereof](#)
- 7420044- [Nucleic acid and protein homologs and uses thereof](#)
- 7420099- [Transgenic animals and uses thereof](#)
- 7425624- [Sulfotransferase 1A3 sequence variants](#)
- 7410785- [ACTR-1, a novel human acyltransferase and uses thereof](#)
- 7407929- [Leptin peptide antagonists](#)
- 7407792- [Compositions, organisms and methodologies employing a novel human kinase](#)
- 7371523- [Phenylethanolamine-N-methyltransferase sequence variants](#)
- 7371529- [Methods and compositions for modulating gluconeogenesis using PGC-1](#)
- 7371539- [Targeted polypeptide degradation](#)
- 7371922- [Nuclear transfer with porcine embryonic stem cells](#)
- 7390648- [Microelectromechanical devices useful for manipulating cells or embryos, kits thereof, method of making same, and methods of use thereof](#)
- 7390894- [Glutathione S-transferase sequence variants](#)
- 7402388- [Expression analysis of FKBP54 in assessing prostate cancer therapy](#)
- 7402724- [Longevity and PAPP-A](#)
- 7402728- [Transgenic mice expressing human CD20 and/or CD16](#)
- 7405272- [Selectin ligand interactor cytoplasmic \(SLIC-1\), a P-selectin glycoprotein ligand \(PSGL-1\) binding protein](#)
- 7429690- [Transgenic bovines having reduced prion protein production](#)

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