

Blastula

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The blastula is an early stage of embryonic development in animals. It is also called blastosphere. It is produced by cleavage of a fertilized ovum and consists of a spherical layer of around 128 cells surrounding a central fluid-filled cavity called the blastocoel. The blastula follows the morula and precedes the gastrula in the developmental sequence. ([From the Wikipedia article Blastula](#).)



Recent Publications on Blastula:

- [A Putative 'Pre-Nervous' Endocannabinoid System in Early Echinoderm Development.](#)
*Embryos and larvae of sea urchins (Lytechinus variegatus,...*13th November, 2009
Shemyakin-Ovchinnikov Institute of Bioorganic Chemistry, Moscow, Russia.- Dev Neurosci. 2009 Nov 12. ([DOI Direct Link](#))
- [Paraquat-induced oxidative stress response during amphibian early embryonic development.](#)
*In addition to the endogenous production of reactive oxygen species (ROS)...*10th November, 2009
Instituto de Biologia Molecular y Celular de Rosario (IBR), Consejo- Comp Biochem Physiol C Toxicol Pharmacol. 2009 Nov 5. ([DOI Direct Link](#))
- [The endoderm gene regulatory network in sea urchin embryos up to mid-blastula stage.](#)
*As the result of early specification processes, sea urchin embryos...*10th November, 2009
Division of Biology, California Institute of Technology, Pasadena, CA- Dev Biol. 2009 Nov 3. ([DOI Direct Link](#))
- [Cell growth-promoting activity of fluid from eye sacs of the bubble-eye goldfish \(Carassius auratus\).](#)
*The growth-promoting effects of fish body fluids, such as serum and...*7th November, 2009
Bioscience and Biotechnology Center, Nagoya University, Nagoya, Aichi- Zoolg Sci. 2009 Apr;26(4):254-8.
- [Feasibility of cryopreservation of zebrafish \(Danio rerio\) primordial germ cells by whole embryo freezing.](#)
*We investigated the feasibility of cryopreservation of zebrafish (Danio...*6th November, 2009
Department of Veterinary Clinical Sciences, Graduate School of Veterinary- Jpn J Vet Res. 2009 Aug;57(2):119-28.
- [A co-dependent requirement of xBcl9 and Pygopus for embryonic body axis development in Xenopus.](#)
*The Wnt/beta-catenin transcriptional activation complex requires the...*31st October, 2009
The Terry Fox Cancer Research Labs, Memorial University of Newfoundland,- Dev Dyn. 2009 Oct 29. ([DOI Direct Link](#))
- [Structural and ultrastructural characterization of the embryonic development of Pseudoplatystoma spp. hybrids.](#)
*The hybrid fish Pseudoplatystoma spp. has been raised on a large scale by...*31st October, 2009
Aquaculture Center of So Paulo State University (CAUNESP), So Paulo,- Int J Dev Biol. 2009 Oct 23. ([DOI Direct Link](#))

- [Development of the neotropical catfish *Rhamdia quelen* \(Siluriformes, Heptapteridae\) incubated in different temperature regimes.](#)
*Summary*The developmental stages for the embryonic and larval periods of...28th October, 2009
 Universidade Federal do Parana, Departamento de Biologia Celular, PO Box- Zygote. 2009 Oct 27:1-14. ([DOI Direct Link](#))
- [The entire zebrafish blastula-gastrula margin acts as an organizer dependent on the ratio of Nodal to BMP activity.](#)
*Formation of the vertebrate embryo is known to depend on the activity of...*27th October, 2009
 Universite de Strasbourg, Illkirch Cedex, France.- Development. 2009 Nov;136(22):3811-9. ([DOI Direct Link](#))
- [Detection of single quantum dots in model organisms with sheet illumination microscopy.](#)
*Single-molecule detection and tracking is important for observing...*17th October, 2009
 Molecular Microscopy Group, Rudolf Virchow Center, University of Wurzburg,- Biochem Biophys Res Commun. 2009 Oct 13. ([DOI Direct Link](#))
- [Suppressor of Hairless \(Su\(H\)\) is Required for Foregut Development in the Sea Urchin Embryo.](#)
*In sea urchin embryos, Notch signaling is required to segregate...*17th October, 2009
 1 Department of Mathematical and Life Sciences, Graduate School of- Zoolog Sci. 2009 Oct;26(10):686-90. ([DOI Direct Link](#))
- [Differential role for synaptojanin 1 in rod and cone photoreceptors.](#)
*Synaptojanin 1 (SynJ1) is a polyphosphoinositide phosphatase involved in...*15th October, 2009
 University of Washington, Department of Biochemistry, Seattle, Washington- J Comp Neurol. 2009 Dec 10;517(5):633-44. ([DOI Direct Link](#))
- [Smic1 is required for phosphorylation of RNA polymerase II and affects 3'-end processing of RNA at the midblastula transition in *Xenopus*.](#)
*Smic1 (Smad-interacting CPSF 30-like) is an unusual protein that interacts...*14th October, 2009
 Wellcome Trust/CR-UK Gurdon Institute and Department of Zoology,- Development. 2009 Oct;136(20):3451-61. ([DOI Direct Link](#))
- [Ultraviolet Radiation Dose to be Applied in Recipient Zebrafish Embryos for Germ-line Chimaerism is Strain Dependent.](#)
*Contents Germ-line chimaerism is a powerful technique that has proved to...*1st October, 2009
 Laboratory of Animal Reproduction and Biotechnology (LARB-UPV),- Reprod Domest Anim. 2009 Sep 28. ([DOI Direct Link](#))
- [DNA replication times the cell cycle and contributes to the mid-blastula transition in *Drosophila* embryos.](#)
*We examined the contribution of S phase in timing cell cycle progression...*30th September, 2009
 Department of Biochemistry and Biophysics, University of California, San- J Cell Biol. 2009 Oct 5;187(1):7-14. Epub 2009 Sep 28. ([DOI Direct Link](#))

Blastula Clinical Trials:



- [Live Births With Low Oxygen Blastocyst Culture](#)



Blastula Patents:

- 7253266- [Polypeptides of FGF-CX](#)
- 7354722- [Modulators of Smurf and BMP/TGF.β. signaling pathways](#)
- 7355015- [Matriptase, a serine protease and its applications](#)
- 7371741- [Estradiol derivatives and pharmaceutical compositions using same](#)
- 7378086- [Retroviral vector having an ovalbumin promoter](#)
- 7378386- [Anti-viral treatment methods using phosphatidylethanolamine-binding peptide derivatives](#)
- 7378497- [Potassium channels and genes encoding these potassium channels](#)
- 7381848- [Estrogenic compounds as anti-mitotic agents](#)
- 7384909- [Anti-viral treatment methods using phosphatidylethanolamine-binding peptides linked to anti-viral agents](#)
- 7390826- [Inhibitors of animal cell motility and growth](#)
- 7402665- [Nucleic acid encoding a poly-\(ADP\) ribose polymerase enzyme and uses thereof](#)
- 7332647- [Fish produced by nuclear transfer from cultured cells](#)
- 7319138- [Human DRG11-Responsive Axonal Guidance and Outgrowth of Neurite \(DRAGON\) proteins and variants thereof](#)
- 7259245- [Anti-fused antibodies](#)
- 7264968- [Method of inducing and maintaining neuronal cells](#)
- 7285532- [Therapeutic method for treating bone formation diseases](#)
- 7285633- [Metalloprotease highly expressed in the testis, MMP-29](#)
- 7288630- [Potassium channel KCNQ5 and sequences encoding the same](#)
- 7291483- [FGF-CX polynucleotide sequences and methods of producing same](#)
- 7291606- [Compositions and methods for identifying agents which regulate chromosomal stability, gene activation and aging](#)
- 7291610- [Estrogenic compounds as anti-mitotic agents](#)
- 7300772- [BMP products](#)
- 7300929- [Mediators of hedgehog signaling pathways, compositions and uses related thereto](#)
- 7408095- [Methods for introducing heterologous cells into fish to determine if the heterologous cells contain cancer cells or a pathogen](#)
- 7413901- [Method of forming vertebrate pancreas in vitro](#)
- 7427677- [Expression of zebrafish bone morphogenetic protein 4](#)
- 7547766- [Anti-tango294 antibodies and uses thereof](#)
- 7557070- [Multiplexed cell analysis system](#)
- 7560281- [Use of TGF beta superfamily antagonists to make dopaminergic neurons from embryonic stem cells](#)
- 7563596- [Method of modulating tissue growth using Frzb protein](#)
- 7563787- [Substituted pyrazole compounds](#)
- 7572442- [Selected antibody compositions for binding to aminophospholipids](#)
- 7572448- [Combined cancer treatment methods using selected antibodies to aminophospholipids](#)
- 7598082- [Process of mammalian cell reprogramming through production of a heterokaryon](#)
- 7611704- [Compositions and methods for treating viral infections using antibodies and immunoconjugates to aminophospholipids](#)
- 7611892- [Prostate-specific or testis-specific nucleic acid molecules, polypeptides, and diagnostic and therapeutic methods](#)
- 7547674- [Methods and compositions for the repair and/or regeneration of damaged myocardium](#)

- 7541431- [Cristin/R-spondin ligands active in the Wnt signaling pathway and methods, compositions and kits relating thereto](#)
- 7435745- [Methods and compositions for inhibition of angiogenesis](#)
- 7455833- [Methods and compositions for treating viral infections using antibodies and immunoconjugates to aminophospholipids](#)
- 7479287- [Methods of inhibiting proliferation of cells](#)
- 7491865- [Mouse models of prostate cancer development and metastasis through expression of a hepsin transgene](#)
- 7498322- [Antiangiogenic agents](#)
- 7511124- [Compositions comprising phosphatidylethanolamine-binding peptides linked to anti-viral agents](#)
- 7521432- [Compositions and methods for identifying agents which regulate chromosomal stability, gene activation and aging](#)
- 7524811- [Anti-angiogenic peptides from the N-terminus of endostatin](#)
- 7524865- [Methods and compositions for treating an ocular neovascular disease](#)
- 7525011- [Transgenic cancer models in fish](#)
- 7615223- [Selected immunoconjugates for binding to aminophospholipids](#)

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Send comments and feedback to:

Peter Barfoot Managing Director, BioPortfolio Ltd.

UK Tel: (+44) 1300 321501

USA Voicemail and Fax: (+1) 415 680 2472

[Peter Barfoot peter.barfoot@bioportfolio.com](mailto:peter.barfoot@bioportfolio.com)

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