

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:

- [Embryonic stem cells isolated from Atlantic cod \(*Gadus morhua*\) and the developmental expression of a stage-specific transcription factor *ac-Pou2*.](#)
*The establishment of embryonic stem cell cultures and the identification...*5th February, 2010
National Institute of Nutrition and Seafood Research (NIFES), Post Box- Fish Physiol Biochem. 2010 Feb 4. ([DOI Direct Link](#))
- [Developmental Patterns in Spiralian Embryos.](#)
*At least five animal phyla exhibit spiralian development, which is...*5th February, 2010
Department of Biology, University of Rochester, Rochester, NY 14607, USA.- *Curr Biol*. 2010 Jan 26;20(2):R72-R77. ([DOI Direct Link](#))
- [Cis-regulatory analysis of the sea urchin pigment cell gene polyketide synthase.](#)
*The *Strongylocentrotus purpuratus* polyketide synthase gene (*SpPks*) encodes...*4th February, 2010
Department of Biology, University of Central Florida, Orlando, FL 32816,- *Dev Biol*. 2010 Jan 29. ([DOI Direct Link](#))
- [Repression of zygotic gene expression in the *Xenopus* germline.](#)
*Primordial germ cells (PGCs) in *Xenopus* are specified through the...*30th January, 2010
Department of Cell Biology and Anatomy, University of Miami School of- *Development*. 2010 Feb;137(4):651-60. ([DOI Direct Link](#))
- [Dynamics of Delta/Notch signaling on endomesoderm segregation in the sea urchin embryo.](#)
*Endomesoderm is the common progenitor of endoderm and mesoderm early in...*28th January, 2010
1Biologie du Developpement, UPMC (Univ. Paris 6) and CNRS, Observatoire- *Development*. 2010 Jan;137(1):83-91. ([DOI Direct Link](#))
- [Jarid2/Jumonji coordinates control of PRC2 enzymatic activity and target gene occupancy in pluripotent cells.](#)
*Polycomb Repressive Complex 2 (PRC2) regulates key developmental genes in...*22nd January, 2010
Department of Chemical and Systems Biology, Stanford University School of- *Cell*. 2009 Dec 24;139(7):1290-302. ([DOI Direct Link](#))
- [Spatiotemporal expression pattern of an encephalopsin orthologue of the sea urchin *Hemicentrotus pulcherrimus* during early development, and its potential role in larval vertical migration.](#)
*We have cloned and studied *Hp-ECPN*, an encephalopsin orthologue of the sea...*14th January, 2010

Research Center for Marine Biology, Tohoku University, Asamushi, Aomori,- Dev Growth Differ. 2010 Jan 7. ([DOI Direct Link](#))

- [Mesenchyme cells can function to induce epithelial cell proliferation in starfish embryos.](#)
*Here, we show that mesenchyme cells have a novel morphogenetic function in...*12th January, 2010
School of Fundamental Science and Technology, Graduate School of Science- Dev Dyn. 2010 Jan 8. ([DOI Direct Link](#))
- [A mathematical model of cleavage.](#)
*In the present paper, we propose a mathematical model of cleavage...*5th January, 2010
Department of Mathematical and Life Sciences, Hiroshima University,- J Theor Biol. 2010 Jan 4. ([DOI Direct Link](#))
- [Novel morphological traits in the early developmental stages of *Temnopleurus toreumaticus*.](#)
*We have re-observed in detail the development of the sea urchin species...*31st December, 2009
Biological Institute, Faculty of Education, Yamaguchi University,- Biol Bull. 2009 Dec;217(3):215-21.
- [Tissue distribution, developmental expression and up-regulation of p8 transcripts on stress in zebrafish.](#)
*The p8 is a transcription factor with a basic helix-loop-helix motif and a...*29th December, 2009
Key Laboratory of Marine Genetics and Breeding (Ocean University of- Fish Shellfish Immunol. 2009 Dec 29. ([DOI Direct Link](#))
- [HpSulf, a heparan sulfate 6-O-endosulfatase, is involved in the regulation of VEGF signaling during sea urchin development.](#)
*Cell surface heparan sulfate proteoglycans (HSPGs) play significant roles...*29th December, 2009
Department of Mathematical and Life Sciences, Graduate School of Science,- Mech Dev. 2009 Dec 29. ([DOI Direct Link](#))
- [cDNA cloning and expression of Ubc9 in the developing embryo and ovary of oriental river prawn, *Macrobrachium nipponense*.](#)
*The small ubiquitin-like modifier (SUMO) pathway in eukaryotes is an...*1st December, 2009
College of Life Science, East China Normal University, Shanghai 200062,- Comp Biochem Physiol B Biochem Mol Biol. 2010 Mar;155(3):288-93. Epub 2009 ([DOI Direct Link](#))
- [Structural analysis of the embryonic development in *Brycon cephalus* \(Gunther, 1869\).](#)
*SummaryThe embryogenesis of *Brycon cephalus* was established in seven...*1st December, 2009
Sao Paulo State University - FMVZ, Animal Production Departament, 18610 -- Zygote. 2009 Nov 27:1-11. ([DOI Direct Link](#))
- [A conserved gene regulatory network subcircuit drives different developmental fates in the vegetal pole of highly divergent echinoderm embryos.](#)
*Comparisons of orthologous developmental gene regulatory networks (GRNs)...*28th November, 2009
Department of Biological Sciences, Carnegie Mellon University, Pittsburgh,- Dev Biol. 2009 Nov 23. ([DOI Direct Link](#))

Blastula Clinical Trials:



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



Blastula Patents:

- 7291610- [Estrogenic compounds as anti-mitotic agents](#)
- 7390826- [Inhibitors of animal cell motility and growth](#)
- 7402665- [Nucleic acid encoding a poly-\(ADP\) ribose polymerase enzyme and uses thereof](#)
- 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](#)
- 7435745- [Methods and compositions for inhibition of angiogenesis](#)
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- 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](#)
- 7384909- [Anti-viral treatment methods using phosphatidylethanolamine-binding peptides linked to anti-viral agents](#)
- 7381848- [Estrogenic compounds as anti-mitotic agents](#)
- 7300772- [BMP products](#)
- 7300929- [Mediators of hedgehog signaling pathways, compositions and uses related thereto](#)
- 7319138- [Human DRG11-Responsive Axonal Guidance and Outgrowth of Neurite \(DRAGON\) proteins and variants thereof](#)
- 7332647- [Fish produced by nuclear transfer from cultured cells](#)
- 7354722- [Modulators of Smurf and BMP/TGF.β. signaling pathways](#)
- 7355015- [Matriptase, a serine protease and its applications](#)
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- 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](#)
- 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](#)
- 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](#)
- 7615223- [Selected immunoconjugates for binding to aminophospholipids](#)
- 7622118- [Cancer treatment methods using selected antibodies to aminophospholipids](#)
- 7625563- [Cancer treatment methods using selected immunoconjugates for binding to aminophospholipids](#)
- 7625759- [Method for using BOC/CDO to modulate hedgehog signaling](#)
- 7626076- [Transgenic mouse whose genome comprises a homozygous disruption of its .α.1G gene, a method of preparing the same and use thereof](#)

- 7632499- [Anti-myostatin antibodies](#)
- 7635760- [Anti-myostatin antibodies](#)
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- 7572448- [Combined cancer treatment methods using selected antibodies to aminophospholipids](#)
- 7524865- [Methods and compositions for treating an ocular neovascular disease](#)
- 7525011- [Transgenic cancer models in fish](#)
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- 7655674- [Modulators of hedgehog signaling pathways, compositions and uses related thereto](#)

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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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