

Table of Contents

- EMBRYOLOGY** 3
- RECURRING LIFE** 3
 - Introduction** 5
 - Basic process in development** 5
 - Germ Cells and their maturation** 6
 - Fertilization** 6
 - Stages of embryology** 6
 - Placenta** 6
 - Fertilization** 6
 - ZYGOTE 6
- STAGES OF EMBRYOLOGY** 6
 - CHANGES IN FIRST WEEK 6
 - CHANGES IN SECOND WEEK 7
 - CHANGES IN THIRD WEEK 8
- SYSTEMIC EMBRYOLOGY** 8

EMBRYOLOGY

RECURRING LIFE

- more specific
 - today's creator (अद्यज)
 - EMBRYOLOGY GENITORS
 - zygote (युग्मज)
 - Blast -
 - Amnioblast (उल्वज)
 - Blastocoel (जननगुहा) , Blastocyst (जननपूट) , Blastomeres (जननखंड) , Blastopore (जननछिद्र)
 - Embryoblast (भ्रूणज)
 - Epiblast (अधिज , आद्यबहिर्जनस्तर) , Hypoblast (अधःज , आद्यअंतःजनस्तर)
 - Trophoblast (पोषज)
 - heart and vessels creator
 - Angiogenesis (वाहिकाजनन)
 - Cardiogenic area (हृदजनक क्षेत्र) , Cardiac progenitor cell (हृद प्रजनक कोशिका)
 - creator of kidney
 - Nephrogenic cord
 - nervous system creator
- युग्मज (zygote)
 - द्वि कोशिकीय युग्मज (क्स 2 celled)
 - 4 celled (4 क्स)
 - 8 celled (8 क्स)
 - 16 celled (16 क्स)
 - जननपूट (blastocyst - क्सः)
 - जननगुहा (blastocoel - ह,अः)
 - outer cell mass (क)
 - पोषज (trophoblast)
 - कोशिकापोषज (cytotrophoblast - क्र)
 - बीजपोषक संकोशिका (syncytiotrophoblast - कू)
 - भ्रूणीय ध्रुव (Embryonic pole - किं)
 - अवभ्रूणीय ध्रुव (Abembryonic pole - कुं)
 - Mural trophoblast (कौं)
 - भ्रूणज (inner cell mass / embryoblast - स)
 - अधिःज (epiblast - श)
 - उल्वीय गुहा (amniotic cavity - शः)
 - उल्वज (amnioblast)
 - ectoderm
 - आद्य रेखा (Primitive streak)
 - आद्य मंडली , आद्य गांठ (Primitive knot / node / hensen's node)

- Nephrogenic cord
 - development of urogenital system
 - development of reproductive system
 - Lateral (पार्श्व)
 - continuous with pericardial bar cephalic to buccopharyngeal membrane
 - pericardial bar
 - pericardial sac
 - series of clefts appear inside
 - join to form
 - intraembryonic coelom
 - u shaped tubular passage
 - divides mesoderm
 - somatic layer with overlying ectoderm
 - somatopleure
 - body wall
 - parietal layer
 - skeletal elements
 - pectoral girdle
 - pelvic girdle
 - splanchnic layer with underlying endoderm
 - Splanchnic layer
 - gut
 - splanchnic mesoderm
 - development of circulatory system
 - बाह्य भ्रूणगुहा (extraembryonic coelom)
 - बाह्य मध्यत्वक (extramebryonic mesoderm)
 - आद्यकायिक मध्यजनस्तर (Somatopleuric mesoderm)
 - आद्यआशय मध्यजनस्तर (Splanchnopleuric mesoderm)
 - ग्रसनी चाप
 - PRIMITIVE POSTURE OF EMBRYO
 - the first folding of embryo to reorganize the organ locations
 - cardiogenic area , pericardial sac , septum transversum
- आद्य गर्त (Primitive pit)
- आद्य खात (Primitive groove)
- आद्य स्तंभ / पृष्ठरज्जु (notochord)
- decidua (माँ)
 - decidua basalis पाती आधार
 - decidua parietalis पाती पार्श्व
 - decidua capsularis पाती संपुट

Introduction

Basic process in development

Germ Cells and their maturation

Fertilization

- [fertilization](#)

Stages of embryology

Placenta

Fertilization

 = amnioblast

 = epiblast

 = hypoblast

 = cytotrophoblast

 = syncytiotrophoblast

ZYGOTE



STAGES OF EMBRYOLOGY

CHANGES IN FIRST WEEK

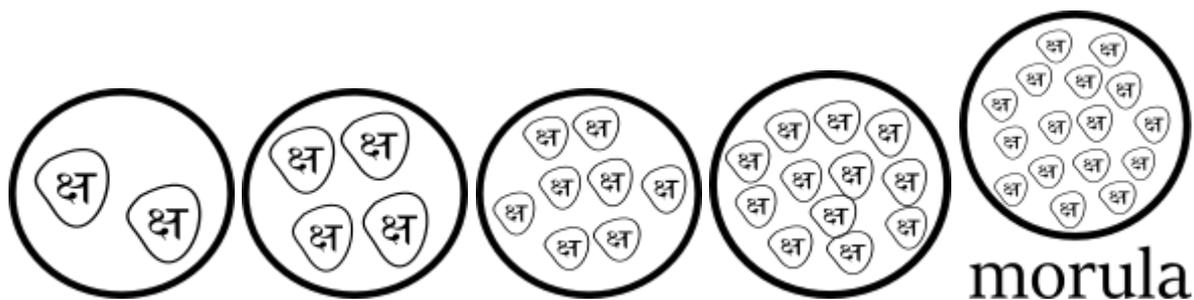
- [morula](#)
- [blastocyst](#)

CLEAVAGE The two cells formed as described above undergo a series of divisions. One [cell](#) divides first so that we have a 3 [cell](#) stage of embryo followed by 4 [cell](#) stage , a 5 [cell](#) stage etc. This process is called cleavage.

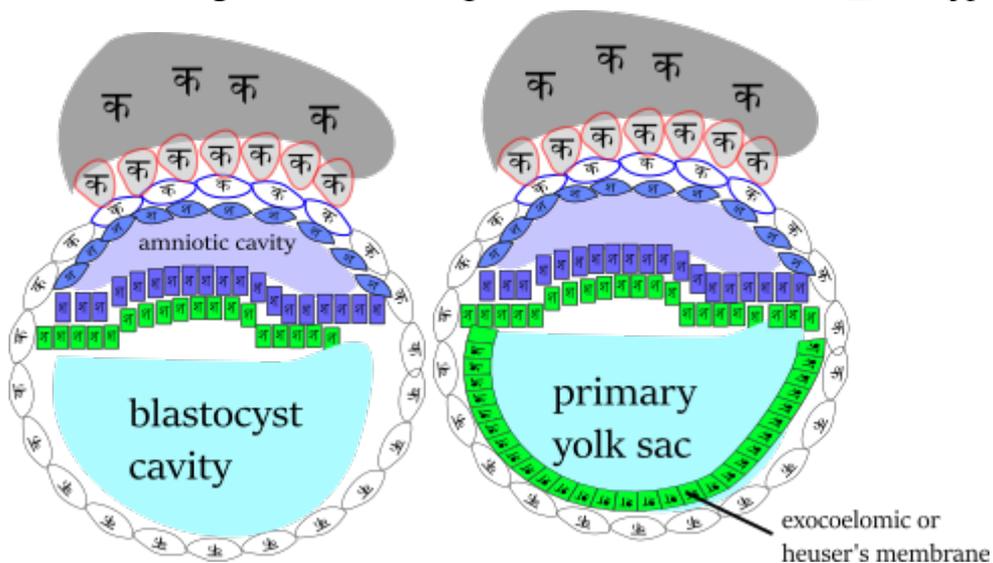
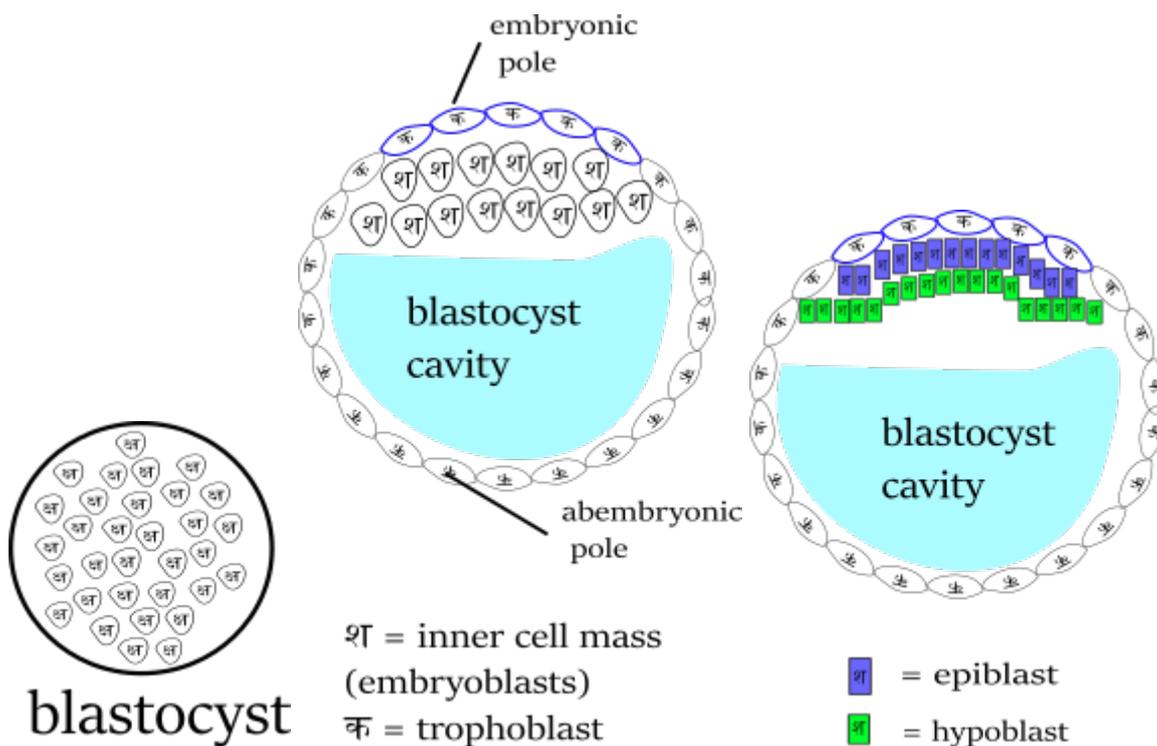
Subdivisions of cleavage

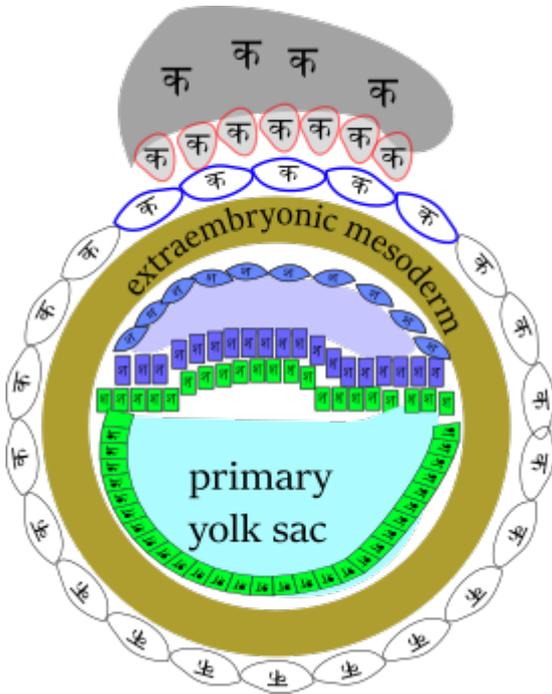
- Stage of compaction : at 8 celled stage
- Morula
- Blastocyst : between 4th and 5th day

GERMINAL PERIOD



CHANGES IN SECOND WEEK





CHANGES IN THIRD WEEK

SYSTEMIC EMBRYOLOGY

- Development of cardiovascular system
- Development of respiratory system
- Development of nervous system
- Development of urogenital system
- development of gastrointestinal tract
- development of skeletal system
- Development of face

From:

<http://mantrakshar.co.in/> - Kshtrgyn

Permanent link:

http://mantrakshar.co.in/doku.php/en/foetal_embryology?rev=1722409339

Last update: **2024/07/31 07:02**

