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The study of the evolutionary development of the nervous system traditionally concentrated on the structural differences that exist at various levels of the phylogenetic scale, but certain functional characteristics, including biochemical and biophysical processes laid down early in evolution and amazingly well conserved to the present, can no longer be ignored.

Neural development is one of the earliest systems to begin and the last to be completed after birth. This development generates the most complex structure within the embryo and the long time period of development means in utero insult during pregnancy may have consequences to development of the nervous system.

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Development of the Nervous System, Fourth Edition provides an informative and up-to-date account of our present understanding of the basic principles of neural development as exemplified by key experiments and observations from past and recent times.

### Developing the nervous system

Prenatal and postnatal development of the human nervous system Almost all nerve cells, or neurons, are generated during prenatal life, and in most cases they are not replaced by new neurons thereafter. Morphologically, the nervous system first appears about 18 days after conception, with the genesis of a neural plate.

The development of the nervous system in humans, or neural development or neurodevelopment involves the studies of embryology, developmental biology, and neuroscience to describe the cellular and molecular mechanisms by which the complex nervous system forms in humans, develops during prenatal development, and continues to develop postnatally. Some landmarks of neural development in the embryo include the birth and differentiation of neurons from stem cell precursors; the migration of immature neurons

### Development of the nervous system - Wikipedia

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### Postnatal Nervous System Development | Stages & Brain ...

Neural development involves the generating, shaping, and re-shaping the nervous system and the first years of life involve intensive neural development. During early childhood, pathways of interconnecting neurons are rapidly being formed, connected, and reinforced.

### human nervous system | Description, Development, Anatomy ...

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### Development of the Nervous System - Medical News

### Neural System Development - Embryology

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Nervous system development is generally made up of 4 major stages (Staveley, n.d.): Specification of the neural cell identities, a fancy way of saying "differentiation" (neural cells organized into neural or glial cells). Neuron migration and axon outgrowth.

Development of the nervous system The embryo consists of three layers that undergo many changes to form organ, bone, muscle, skin, or neural tissue. Skin and neural tissue arise from one layer ...

The text is organized along a development pathway from the induction of the neural primordium to the emergence of behavior. It covers all the major topics including the patterning and growth of the nervous system, neuronal determination, axonal navigation and targeting, synapse formation and plasticity, and neuronal survival and death.

[Development of the Central Nervous System - Spinal Cord ...](#)

[Development of the nervous system in humans - Wikipedia](#)

The development of the nervous system, or neural development, or neurodevelopment, refers to the processes that generate, shape, and reshape the nervous system of animals, from the earliest stages of embryonic development to adulthood. The field of neural development draws on both neuroscience and developmental biology to describe and provide insight into the cellular and molecular mechanisms by which complex nervous systems develop, from nematodes and fruit flies to mammals. Defects in neural d

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