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Glutamate receptor blockade at cortical synapses disrupts development of thalamocortical and columnar organization in somatosensory cortex. Proc Natl Acad Sci U S A. 1996 May 28; 93 (11):5584-5589. [PMC free article] Schlaggar BL, Fox K, O'Leary DD. Postsynaptic control of plasticity in developing somatosensory cortex. Nature.

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This chapter presents brain development and plasticity across levels of neural organization in a comparative framework to shed light on brain evolution across and within vertebrates and, to a ...

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development and plasticity across levels of neural organization in a comparative framework to shed light on brain evolution across and within vertebrates and, to a lesser extent, invertebrates. With the exception of sponges and placozoans, all animals have a nervous system.

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methods approach to the study of brain development, plasticity and developmental disabilities. Brain plasticity and learning are enhanced in the immature organism relative to the mature one in the speed, quantity and quality of learning and change following experience. This type of learning has been described in

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plasticity is obviously of considerable interest both because it provides a window to understanding the development of the brain and behavior and because it allows insight into the causes of normal and abnormal behavior. THE NATURE OF BRAIN PLASTICITY The underlying assumption of studies of brain and behavioral plasticity is that if ...

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Brain development progresses through a series of stages beginning with neurogenesis and progressing to neural migration, maturation, synaptogenesis, pruning, and myelin formation. Eight basic principles of brain plasticity are identified.

### **Brain Plasticity and Behaviour in the Developing Brain**

Neural Plasticity and Human Development Charles A. Nelson 1 Institute of Child Development and Department of Pediatrics, University of Minnesota, Minneapolis, Minnesota Abstract In this article, I argue that experience-induced changes in the brain may be a useful way of viewing the course of

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of human development, leaving much still to be learned about how nature and/or nurture affects plasticity in early human development. We subsequently consider evidence suggesting that, for temperamental, physiological and/or genetic reasons, some children actually are more susceptible than others to both positive and negative rearing influences.

### **The Nature (and Nurture?) of Plasticity in Early Human**

Development and learning are powerful agents of change across the lifespan that induce robust structural and functional plasticity in neural systems.

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