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Yale researchers have found how
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treatment for depression, and
explained it in a new study.

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Mushrooms Spurs Growth of
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Depression, Landmark Study
Finds

A new mouse study showed how
one dose of psilocybin led to an
immediate, long-lasting increase

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in the number and strength of
connections between neurons.

Psychedelic Compound in "Magic
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“Magic Mushrooms” Spurs Growth
of Neural Connections Lost in
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market is projected to reach USD
3.7 billion by 2027 with a
compound annual growth ...

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Psychology Today

The functional roles of polysialic acid (PSA) stem from its ability to regulate cell-cell interactions. Urs Rutishauser describes the

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properties of PSA that underlie
this activity and outlines its ...

Polysialic acid in the plasticity of
the developing and adult
vertebrate nervous system
Researchers from The University
of Tokyo Institute of Industrial

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Science used artificial intelligence to obtain a more objective understanding of cell growth and division without preconceived ...

Computer-assisted biology:
Decoding noisy data to predict
cell growth

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Evidence supporting the use of psychedelic drug psilocybin as a treatment for depression is growing, with a new study uncovering its long-term effects on the brain.

Treatment for depression?

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Psychedelic drug found to
improve neural connections in
brain

Sales are the central nervous
system of your business, and
sometimes a mix of the basics
alongside some new technology is
just the adjustment needed to

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Five Simple And Powerful Ways
To Generate More Revenue
Patent bolsters intellectual
property protection as Company's
partner, MEDICE, works to
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Market may exceed USD 80
million by 2025; according to a
new research report. Vitamin B9
market demand is expected to
witness growth at around 5% up
to 2025 as it is ...

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Ingredients Market Report Till
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in depression

Patent bolsters intellectual
property protection as Company's
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develop and potentially
commercialize ADAIR in Europe

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Understanding the role of neural activity in the development of the brain has been a major concern of many modern neurobiologists.

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The reason is plain enough: since the world influences the brain by means of action potentials and synaptic potentials, activity must be the chief cause of the neural changes wrought by experience. This 1994 volume explores the hypothesis that neural activity

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generated by experience

modulates the ongoing growth of the brain during maturation, thus sculpting in each of us a unique nervous system according to the events of our early life. Brain growth is considered at a macroscopic level by examining

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Brain maps and their modular substructure, and at a cellular level by investigating the neuronal interactions that influence the formation and maintenance of these structures. The ways that experience influences the maturation of the

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Brain at both macroscopic and microscopic levels are described, and the conventional wisdom is re-examined.

How we raise young children is

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Brain of today's most highly personalized and sharply politicized issues, in part because each of us can claim some level of "expertise." The debate has intensified as discoveries about our development-in the womb and in the first months and years-

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Brain Lesions: Lingua
have reached the popular media. How can we use our burgeoning knowledge to assure the well-being of all young children, for their own sake as well as for the sake of our nation? Drawing from new findings, this book presents important conclusions about

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Brain- Lesioni Linceo nature-versus-nurture, the impact of being born into a working family, the effect of politics on programs for children, the costs and benefits of intervention, and other issues. The committee issues a series of challenges to decision makers regarding the

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Brain Lesions: Issues of quality of child care, issues of racial and ethnic diversity, the integration of children's cognitive and emotional development, and more. Authoritative yet accessible, *From Neurons to Neighborhoods* presents the evidence about "brain wiring" and

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Brain kids learn to speak, think, and regulate their behavior. It examines the effect of the climate-family, child care, community-within which the child grows.

The brain ... There is no other

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Brain Lezioni Lincee part of the human anatomy that is so intriguing. How does it develop and function and why does it sometimes, tragically, degenerate? The answers are complex. In *Discovering the Brain*, science writer Sandra Ackerman cuts through the complexity to

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Bring this vital topic to the public. The 1990s were declared the "Decade of the Brain" by former President Bush, and the neuroscience community responded with a host of new investigations and conferences. Discovering the Brain is based on

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the Institute of Medicine

conference, Decade of the Brain:
Frontiers in Neuroscience and
Brain Research. Discovering the
Brain is a "field guide" to the
brain--an easy-to-read discussion
of the brain's physical structure
and where functions such as

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Brain: A Journey Through Language and music appreciation lie. Ackerman examines How electrical and chemical signals are conveyed in the brain. The mechanisms by which we see, hear, think, and pay attention--and how a "gut feeling" actually originates in the brain.

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Learning and memory retention, including parallels to computer memory and what they might tell us about our own mental capacity. Development of the brain throughout the life span, with a look at the aging brain. Ackerman provides an

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enlightening chapter on the connection between the brain's physical condition and various mental disorders and notes what progress can realistically be made toward the prevention and treatment of stroke and other ailments. Finally, she explores the

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potential for major advances during the "Decade of the Brain," with a look at medical imaging techniques--what various technologies can and cannot tell us--and how the public and private sectors can contribute to continued advances in

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neuroscience. This highly readable volume will provide the public and policymakers--and many scientists as well--with a helpful guide to understanding the many discoveries that are sure to be announced throughout the "Decade of the Brain."

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Preceded by: Building brains /
David Price ... [et al.]. 2011.

This book concentrates on the
organizational level of neurons

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Brain Lesion: Lincse
and neuronal networks under the unifying theme "The Self-Organizing Brain - From Growth Cones to Functional Networks". Such a theme is attractive because it incorporates all phases in the emergence of complexity and (adaptive) organization, as

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Brain Lesions: Lines
well as involving processes that remain operative in the mature state. The order of the sections follows successive levels of organization from neuronal growth cones, neurite formation, neuronal morphology and signal processing to network

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development, network dynamics
and, finally, to the formation of
functional circuits.

Scientific research shows how
experience shapes the
organization of the human brain
through mechanisms of neural

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Brain. To understand this plasticity, it is important to examine the developmental mechanisms through which the brain grows from a single cell to achieve the complex architecture of the fully developed human brain. Cognition and Neural

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Development examines the embryonic development of the brain to appreciate the dimensions of developmental momentum that shape the neural and psychological development of our lives. It provides new insights into the evolutionary-

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developmental basis of human
psychological function.

The effects of highly prevalent
early-life seizures on neuronal
activity-dependent
developmental programs within
the immature brain remain

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unclear. To address this issue, the present work examined the acute and persistent effects of early-life seizures on neuronal dendritogenesis, a key activity-dependent component of neural circuit development. A novel experimental model system of

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early-life seizures, based on the albino *Xenopus laevis* tadpole, was developed for these studies. The transparency of this organism allows in vivo imaging of neuronal growth and activity within the intact developing brain.

Additionally, immobilization of

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tadpoles using reversible paralytics and immersion in agar, for electrophysiological or imaging experiments, allows examination of seizure activity and seizure-induced effects on neuronal growth for the first time within the unanaesthetized and

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Brain Lesion. Chemoconvulsant-induced seizures in tadpoles were extensively characterized using behavioural assessment, measures of cell death, and in vivo examination of neural activity during seizures through electrophysiological recordings

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Brain Imaging of Intracellular
calcium dynamics. Rapid and long-
interval time-lapse in vivo two-
photon imaging of individual
fluorescently labelled growing
optic tectal neurons within the
intact tadpole brain revealed that
seizures inhibit dendritic arbor

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growth, that these effects are mediated cell-autonomously by excessive AMPA-receptor mediated excitatory activity, and that a single seizure episode persistently stunts subsequent arbor growth. Reduced dendritic growth is a result of decreased

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branch elongation, increased
branch elimination, and loss of
dendritic filopodia. Seizures also
persistently reduced the density
of immunostained excitatory
synaptic markers within the tectal
neuropil. Rapid time lapse
imaging at 5 minute intervals for

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5 hours reveals selective effects on filopodial growth dynamics, characterized by rapid increase in the rate of eliminatio.

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neuroscientists, clinicians, psychologists, physiologists, and pharmacologists. Led by an internationally renowned editorial board, this important serial publishes both eclectic volumes made up of timely reviews and

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thematic volumes that focus on recent progress in a specific area of neurobiology research. This volume reviews existing theories and current research surrounding Axon Growth and Regeneration. Leading authors review state-of-the-art in their field of

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investigation and provide their views and perspectives for future research Chapters are extensively referenced to provide readers with a comprehensive list of resources on the topics covered All chapters include comprehensive background

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information and are written in a
clear form that is also accessible
to the non-specialist

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