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~~Issue 2) PANEL:~~
~~Neural circuit~~
~~mechanisms of~~
~~memory replay~~

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Circuits. Thomas
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circuit models
with deep
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Jeff Lichtman
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1: Connectomics:

seeking neural
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circuit function

at quantal

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~~part 1 Neural~~

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~~Neural Circuit~~

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~~Connectomics~~

Defining Neural

Circuits to

Understand Brain

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Development

Cracking a
Neural Circuit's
Function Through
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Nervous System Patterning

Neural Connection

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~~time lapse video~~

UCSD's Prof.

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Feller on Neural
Activity on the
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Neural Circuits
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circuits and
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function *Neural*

Circuit

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Underlying Early

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A neural circuit
approach to
mental illness -

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Joshua Gordon,
M.D., Ph.D.

Nervous Tissue:
Neural Circuits

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Development And
Function
Description. The
genetic,
molecular, and
cellular
mechanisms of
neural
development are

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Development
essential for
understanding
evolution and
disorders of
neural systems.
Recent advances
in genetic,
molecular, and
cell biological
methods have
generated a
massive increase
in new
information, but

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there is a
paucity of
comprehensive
and up-to-date
syntheses,
references, and
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perspectives on
this important
subject.

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Development and

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& Pasko Rakic.

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Description. The
genetic,
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mechanisms of
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development are
essential for
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evolution and
disorders of
neural systems.
Recent ...

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comprehensive
and information-
packed book on
neural circuit
development and
function. There
have been

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tremendous
advances over
the past several
years in
understanding
brain function
as it relates to
structure, but
this information
has not been
easily
accessible by
clinicians and
researchers.

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there is a

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Brain ...

Neural Circuit
and Cognitive
Development,
Second Edition,
the latest
release in the
Comprehensive
Developmental
Neuroscience
series, provides

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a much-needed update to underscore the latest research in this rapidly evolving field, with new section editors discussing the technological advances that are enabling the pursuit of new research on

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Neural Circuit
Development
development.
And Function In
This volume is
The Healthy
devoted mainly
And Diseased
to anatomical
Brain
and functional
Comprehensive
development of
Developmental
neural circuits
Neuroscience
and neural
systems and
cognitive
development.

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Neural Circuit
and Cognitive
Development:
The Healthy
Comprehensive
And Diseased
Brain

A neural circuit consists of neurons that are interconnected by synapse. Once activated, they carry a specific function. They connect forming

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a large scale
brain network.
Neural circuits
are both
functional and
anatomical
entities.

Comprehensive Developmental

Neural Circuits
| Behavior,
Examples,
Summary & Facts
Myelin

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Development in
circuit
function. Neural
circuit function
requires not
only precise
connectivity but
also regulation
of signal timing
and metabolic
support for
axons.

Myelination can
robustly

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Developmental
influence neural
circuit dynamics
(for review, see
Mount and Monje,
2017). The
geometric
properties of
myelinated
internodes,
including sheath
thickness and
internode
length,
contribute to

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Development
conduction
velocity,
together with
the diameter of
the axon itself.

Brain

Activity Shapes
Neural Circuit
Form and
Function: A ...
of neural
circuit
development and

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Development,
including cell
proliferation
and
differentiation,
axon and
dendrite growth,
synaptogenesis,
and synaptic
function and

Neurotrophin
regulation of

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Development
neural circuit
development and
And Function In

Abstract. Brain-
derived

neurotrophic
factor (BDNF) -- a
member of a

small family of
secreted
proteins that

includes nerve
growth factor,
neurotrophin 3

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Development
and neurotrophin
4--has emerged
And Function In
as a key
The Healthy
regulator of
And Diseased
neural circuit
Brain
development and
Comprehensive
function. The
Developmental
expression,
Neuroscience
secretion and
actions of BDNF
are directly
controlled by
neural activity,
and secreted

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BDNF is capable of mediating many activity-dependent processes in the mammalian brain, including neuronal differentiation and growth, synapse . . .

Neurotrophin

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Read Free Neural Circuit Development of neural circuit development and The Healthy

And Development
of neural
circuits is a
complex process
that relies on
the proper
navigation of
axons through
their
environment to

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Development
appropriate
targets. While
axon-environment
and axon-target
interactions
have long been
known as
essential for
circuit
formation,
communication
between axons
themselves has

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Development
only more
recently emerged
as another
crucial
mechanism.
Brain

Special Issue
"Molecular
Mechanisms of
Neural Circuit

...

Emerging roles
of astrocytes in

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development.
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neural circuit
development.
Astrocytes are
now emerging as
key participants
in many aspects
of brain
development,
function and
disease. In
particular, new
evidence shows
that astrocytes
powerfully

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Development
control the
formation,
maturation,
function and
elimination of
synapses through
various secreted
and contact-
mediated
signals.

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of astrocytes in

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Development
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Abstract.

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Subplate neurons
indispensably
orchestrate the
developmental
assembly of
cortical neural
circuits. Here,
by cell type-
specific
dissection of
Arid1a function,

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Development
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The Healthy
ubiquitous
chromatin
remodeler in
subplate neuron
molecular
identity and
circuit wiring
function. We
find that pan-
cortical

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deletion of
Arid1a, but not
sparse deletion,
leads to ...

And Diseased Brain

Chromatin
remodeler Arid1a
regulates
subplate neuron
...

Description:

This is a
comprehensive

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and information-
packed book on
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development and
function. There
have been
tremendous
advances over
the past several
years in
understanding
brain function
as it relates to
structure, but

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this information
has not been
easily
accessible by
clinicians and
researchers.

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Healthy and ...
neural circuit
development,

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whereas higher levels of the auditory pathway require structured activity patterns arising from acoustic signals to guide their final stages of assembly. The influence of each activity-

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development and ac
tivity-
independent
factor waxes and
waned within
defined windows
of development,
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Chapter 2 -
Functional
Circuit
Development in

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series, provides
a much-needed
update to
underscore the

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latest research
in this rapidly
evolving field,
with new section
editors
discussing the
technological
advances that
are enabling the
pursuit of new
research on
brain
development.
This volume is

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devoted mainly
to anatomical
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Development
the cognitive
and neural basis
of this key
human cogni-tive
capacity.

However, as we
highlight later,
we are
especially
excited about
the future of
ToM in develop-
mental cognitive

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Development: studies that combine both methods, using neuroimaging methods to directly study cognitive and neural development in childhood.

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Neuroscience of
Theory of Mind
The field of
neural
development
draws on both
neuroscience and
developmental
biology to
describe and
provide insight
into the

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Development and
molecular
mechanisms by
which complex
nervous systems
develop, from
nematodes and
fruit flies to
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