

# Neural Circuit Development And Function In The Healthy And Diseased Brain Comprehensive Developmental Neuroscience

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## Neural Circuit Development And Function

Replacing digital with analog circuits and photonics can improve performance and power, but it's not that simple.

## Developers Turn To Analog For Neural Nets

An implanted device in the brain enables wireless neural monitoring and stimulation for up to 15 months following implantation.

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## **Long-term wireless streaming of neural recordings for circuit discovery and adaptive stimulation in individuals with Parkinson's disease**

An analysis of recent literature advances novel hypotheses and suggests new experimental approaches in order to build an integrated understanding of prefrontal neural architecture and behavioral ...

## **Linking mPFC circuit maturation to the developmental regulation of emotional memory and cognitive flexibility**

The establishment of neural circuits depends on precise neuronal positioning in the cortex, which occurs via a tightly coordinated process of neuronal differentiation, migration, and terminal ...

## **Transcription factor 4 controls positioning of cortical projection neurons through regulation of cell adhesion**

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## **Molecular Mechanisms of Neural Circuit Development and Regeneration.**

The cerebral cortex is the instrument by which we carry the most complex mental functions. Fortunately ... With the advent of the supercomputer, there has been increased interest in neural network ...

## **Neural Circuits of the Cerebral Cortex**

Study in mice and people offers new approach to investigating mental illnesses. The humble lab mouse has provided invaluable clues to understanding diseases ranging from cancer to diabetes to COVID-19 ...

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## **Mice With Hallucination-Like Behaviors Reveal Insights Into Psychotic Illnesses**

This program supports basic, circuit-level studies that examine the mechanisms of brain and behavioral regulation, including the development, organization, and function of neural circuits that

...

## **Regulatory and Systems Neuroscience Program**

Neural networks ought to be very appealing to hackers. You can easily implement them in hardware or software and relatively simple networks can perform powerful functions. As the jobs we ask of ...

## **Neural Network Keeps It Light**

Sebastian's research interests include neural development, neuroinflammation and neuronal circuit function and prior to joining Collectricon, Sebastian did a Post-Doc at the Institute for Molecular ...

## **Deciphering the spreading of neuropathologies in neuronal circuits using a high capacity microfluidics platform**

This program supports basic investigations of circuit-level neurobiological mechanisms underlying affect, social behavior, and social cognition in healthy humans and animals. Topics of interest ...

## **Social and Affective Neuroscience Program**

The ultimate aim of the research is to stimulate the development of new clinical strategies ... focusing on investigating the hippocampus and amygdala associated neural circuits and functions. The ...

## **Department of Neurobiology and Anatomy**

Science is a highly creative process in which researchers test innovative methods and models to

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unlock new findings. This includes the use of model organisms—nonhuman species that help scientists ...

## **Creative Models Help Pew Scholars Unlock New Discoveries**

The hypothalamus controls homeostasis, metabolism, and reproductive functions through a variety of intricate interconnecting neural circuits. Previous studies suggested that coronet cells in the Ciona ...

## **The hypothalamus predates the origin of vertebrates**

During development, Caspr2, the protein encoded by CNTNAP2, is thought to assist in interactions important for cellular migration and subsequent laminar organization (3), indicating a role for CNTNAP2 ...

## **Altered Functional Connectivity in Frontal Lobe Circuits Is Associated with Variation in the Autism Risk Gene CNTNAP2**

Although neurologic symptoms occur in two-thirds of lysosomal storage disorders (LSDs), for most we do not understand the mechanisms underlying brain dysfunction. A major unanswered question is if the ...

## **Neuronal genetic rescue normalizes brain network dynamics in a lysosomal storage disorder despite persistent storage accumulation**

The award, considered the Korean Nobel Prize, recognizes Lee's research on the neural mechanisms of decision-making ...

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